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FIGURE 103

MSVPGPYQAATGPSSAPSAPPSYEETVAVNSYYPTPPAPMPGPTTGLVTGPDGKGMNPPSYYTQPAPIPNNNPIT
VQTVYVQHPITFLDRPIQMCCPSCNKMIVSQLSYNAGALTWLSCGSLCLLGCIAGCCFIPFCVDALQDVDHYCPN
CRALLGTYKRL

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FIGURE 104

GTTTCTCTCCCTGCCCCGCGACTTCGCGCAAGATCCGGGAAGGACACCCGAGGCCCTGGGAGACCCTGGGGAG
GTGAAAGTCAGAGAGCGAAGCGGGCCGTGGCCCCCTAGGCCTGACCCCTCCCCGCGGGGTAAAGCGGGCACCCTGC
GAGCGCAGGGGTCTCTTACTGCTGATGGCACCCAGCTCTGGGCCAGACGCCGCTCACCGTCCACCGCCGGTGC
TGGGTAAAATGTCGGTTCAGGACCTTACCAGGCGGCCACTGGGCCTTCCTCAGCACCATCCGCACCTCCATCCT
ATGAAGAGACAGTGGCTGTAAACAGTTATTACCCACACCTCCAGCTCCCATGCCTGGGCCAACTACGGGGCTTG
TGACGGGGCTGATGGGAAGGGCATGAATCCTCCTTCGTATTATACCCAGCCAGCGCCCATCCCCAATAACAATC
CAATTACCGTGCAGACGGTCTACGTGCAGCACCCCATCACCTTTTTGGACCGCCCTATCCAAATGTGTTGTCCTT
CCTGCAACAAGATGATCGTGAGTCAGCTGTCCTATAACGCCGGTGCTCTGACCTGGCTGTCCTGCGGGAGCCTGT
GCCTGCTGGGGGTGCATAGCGGGCTGCTGCTTCATCCCCCTTCGCGTGGATGCCCTGCAGGACGTGGACCATTAC
TGTCCCAACTGCAGAGCTCTCCTGGGCACCTACAAGCGTTTGTAGGACTCAGCCAGACGTGGAGGGAGCCGGGTG
CCGCAGGAAGTCCTTTCCACCTCTCATCCAGCTTCACGCCTGGTGGAGGTTCTGCCCTGGTGGTCTCACCTCTCC
AGGGGGCCACCTTCATGTCTTCTTTTGGGGGAATACGTGCAAACTAACAAATCTCCAAACCCAGAAATTG
CTGCTTGGAGTCGTGCATTAGGACTTGCAAAGACATTCCCCTTGAGTGTGAGTTCCACGGTTTCCTGCCTCCCTGA
GACCCTGAGTCCCTGCCATCTAACTGTGATCATTGCCCTATCCGAATATCTTCCTGTGATCTGCCATCAGTGGCTC
TTTTTTCCTGCTTCCATGGGCCTTTCTGGTGGCAGTCTCAAACTGAGAAGCCACAGTTGCCTTATTTTTGAGGCT
GTTCTGCCCAGAGCTCGGCTGAACCAGCCTTTAGTGCCTACCATTATCTTATCCGTCTCTTCCCGTCCCTGATGA
CAAAGATCTTGCCTTACAGACTTTACAGGCTTGGCTTTGAGATTCTGTAAGTGCAGACTTCATTAGCACACAGAT
TCACTTTAATTTCTTAATTTTTTTTTTAAATACAAGGAGGGGGCTATTAACACCCAGTACAGACATATCCACAAG
GTCGTAAATGCATGCTAGAAAAATAGGGCTGGATCTTATCACTGCCCTGTCTCCCTTGTTTCTCTGTGCCAGAT
CTTCAGTGCCCTTTCCATACAGGGATTTTTTCTCATAGAGTAATTATATGAACAGTTTTTATGACCTCCTTTT
GGTCTGAAATACTTTTGAACAGAATTTCTTTTTTTTAAAAAAAACAGAGATGGGGTCTTACTATGTTGCCAGG
CTGGTGTGAACTCCTGGGCTCAAGCGATCCTTCTGCCTTGGCCTCCCGAAGTGCTGGGATTGCAGGCATAAGCT
ACCATGCTGGGCCTGAACATAATTTCAAGAGGAGGATTTATAAAACCATTTTCTGTAATCAAATGATTGGTGTCA
TTTTCCCATTTGCCAATGTAGTCTCACTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 105

MSVPGPYQAATGPSSAPSAPPSYEETVAVNSYYPTPPAPMPGPTTGLVTGPDGKGMNPPSYYTQPAPIPNNNPIT
VQTVYVQHPITFLDRPIQMCCPSCNKMIVSQLSYNAGALTWLSGSLCLLGVHSGLLLHPLLRGCPAGRGPLLSQL
LQSSPGHLQAFVGLSQTWREPGAAGSPFHLSSSFTPGGGSALVVSPHQGAHLHVFFWGEYVAKLTNLQTPEIAAW
SRA

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FIGURE 106

GGTCCACCATGGCCCTGCTGCACTCCGGCCGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCG
CCGCGGCCCTCTGCCAGAGCCAGCTCCTGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCA
CTGAAGCCTTTAAGAGGGACACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAATGGAA
AGCCTTACGTTCTGCCTAGCGTCCGCAAGGCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGC
CCATTGGGGGACTGGCTGAATTTTGCAAGGCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGA
GTGGCCGGTTTGTCACTGTGCAGACCATTTCTGGAAGTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGAT
TTTTTAAGTTCAGCCGAGATGTCTTTCTGCCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTG
GCATGCAGCTACAAGGTTATCGGTATTATGACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATA
TTTCAAAAATACCAGAGCAGAGTGTTCTTCTTCTGCATGCCTGCGCCACAATCCCACGGGAGTGGACCCGCGTC
CGGAACAGTGGAAGGAAATAGCAACAGTGGTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAG
GCTTTGCCAGTGGTGATGGTGATAAGGATGCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGCC
TCTGCCAATCATATGCCAAGAACATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATG
CGGATGAAGCCAAAAAGGGTAGAGTCACAGTTGAAGATCTTGATCCGTCCCATGTATTCCAACCTCCCCTCAATG
GGGCCCCGATTGCTGCTGCCATTCTGAACACCCAGATTTGCGAAAAAATGGCTGCAAGAAGTGAAAGGCATGG
CTGACCGCATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAAC
ACATCACCGACCAAATTGGCATGTTCTGTTTTACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGT
TCTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTCACCTCCAGCAACGTGGGCTACCTTGCCC
ATGCCATTACACAGGTACCAAGTAATGTCCCTGGGTGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTG
CTATTGAGAGCTTCACACAGACAATGAGAGAGGGTGGATGGTGGTGAGTGGATCATTCTTTTCAGCCACAGTGTG
TAACACTCAGCATTGGAATGTTTCTCAGAAAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTC
TGGAATATTAAACCAAACCTCTCCCGGTCCTTTTTTCTCCAACCTTTCTCAAAGAGTTTACATGTGCAAGAAAGT
CATCGCACAAAAAACCTGTCAATTATGCCATTGCAATATTTGAGAAGCTTTAACTGAAGTGTGAGTTTCTCGT
GAGAAACAAGCACACCTTAGAGGCTTTGAGAGAAGGCCAGCTAGTTCTGTGATGAGTAGTCGGCCTCGTGTCTGT
CCTCCCATCTTGGAACAACCTTATCAACAGGCCGCACTGCAGAAATGATGTTTTATGAAAACCATGAGCTGCTGC
CACTCCAGCAAGGGAAATAATGCAGTTTCTGTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTC
TTGCCGTTCTTTTCCTTACACGCAAAACATTTTTAACTATTGCAGTTTCATCCCATTCTACTGCTTGATTGACCA
TCAACTCCATCCTATCGAGATTATTTAAGAATGAAGAACATAATTTTTCTGCTGATGCCGTACCCTCACCTTTT
CAGCAAAGAATAGTGGAGAGTAGGAACTGTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCA
GTTGGGATGTTGTCTCTGCCCGGTTGGACCTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTG
TGAGTCCAGCGGCGCAGGGTGGTACCAGGAAAGAGGATATTCTAGGCTTGCGTGTCTGCTAGCTGGGTTCAGGCTT
CACCCACTGGAAAGAACCACCATCTGCTCTAACCATGTAGACTTATTGCGGCCTGGTTTTCTCTGTTACAATAAA
ATTACTGTAGACCC

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FIGURE 107

MALLHSGRVLPGIAAAAFHPGLAAAASARASSWTHVEMGPPDPILGVTEAFKRDTNSKKMNLGVGAYRDDNGKPY
VLPSVRKAEAQIAAKNLDKEYLPIGGLAEFCKASAELALGENSEVLKSGRFVTVQTISGTGALRIGASFLQRFFK
FSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYYDPKTCGFDFTGAVEDISKIPEQSVLLHACAHNPTGVDPREQ
WKEIATVVKKRNLF AFFDMAYQGFASGDGDKDAWAVRH FIEQGINVCLCQSYAKNMGLYGERVGAFTMVCKDADE
AKRVESQLKILIRPMYSNPPLNGARIAAAI L NTPDLRKQWLQEVKGMADRIIGMRTQLVSNLKKEGSTHNWQHIT
DQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGYLAHAHQVTK

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FIGURE 108

GTGGGTGAGCGGCGGCCACGGCATCCIGTGCTGTGGGGGCTACGAGGAAAAGATCTAATTATCATGGACCTGCGAC
AGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGACCGTGTACATC
ATGAGCCTCAGCTCAGTGACAAGGTTTACAATGATGCTCAGAGTTTTGATTATGACCATGATGCCTTCTTGGGTG
CTGAAGAAGCAAAGACCTTTGATCAGCTGACACCAGAAGAGAGCAAGGAAAGGCTTGGAAGATTGTAAGTAAAA
TAGATGGCGACAAGGACGGGTTTGTCACTGTGGATGAGCTCAAAGACTGGATTAAATTTGCACAAAAGCGCTGGA
TTTACGAGGATGTAGAGCGACAGTGAAGGGGCATGACCTCAATGAGGACGGCCTCGTTTCTGGGAGGAGTATA
AAAATGCCACCTACGGCTACGTTTTAGATGATCCAGATCCTGATGATGGATTAACTATAAACAGATGATGGTTA
GAGATGAGCGGAGGTTTAAATGGCAGACAAGGATGGAGACCTCATTGCCACCAAGGAGGAGTTACAGCTTTCC
TGCACCCTGAGGAGTATGACTACATGAAAGATATAGTAGTACAGGAAACAATGGAAGATATAGATAAGAATGCTG
ATGGTTTCATTGATCTAGAAGAGTATATTGGTGACATGTACAGCCATGATGGGAATACTGATGAGCCAGAATGGG
TAAAGACAGAGCGAGAGCAGTTTGTGAGTTTCGGGATAAGAACCCTGATGGGAAGATGGACAAGGAAGAGACCA
AAGACTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACCTGGTCTATGAATCAGACCAAA
ACAAGGATGGCAAGCTTACCAAGGAGGAGATCGTTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCACAGATT
TTGGGGAGGCCTTAGTACGGCATGATGAGTTCTGAGCTGCGGAGGAACCCCTCATTTCCTCAAAGTAATTTATTT
TTACAGCTTCTGGTTTTCACATGAAATTGTTTGCCTACTGAGACTGTTACTACAACTTTTTAAGACATGAAAAG
GCGTAATGAAAACCATCCCGTCCCCATTCTCTCTCTCTGAGGGACTGGAGGGAAGCCGTGCTTCTGAGGAAC
AACTCTAATTAGTACACTTGTGTTTGTAGATTTACACTTTGTATTATGTATTAACATGGCGTGTATTTTGTGTA
TTTTTCTCTGGTTGGGAGTATGATATGAAGGATCAAGATCCTCCACTCACACATGTAGACAAACATTAGCTCTTT
ACTCTTTCTCAACCCCTTATATGATTTTAATAATTCTCATTCACTAATTTTGTAGCCTGAGATCAATAAGAAA
TGTTTAGGAGAGAGGAAAGAAAAAATATATATGCTCCACAATTTATATTTAGAGAGAGAACACTTAGTCTTGCC
GTCAAAAAGTCCAACATTTTCATAGGTAGTAGGGCCACATATTACATTCAGTTGCTATAGGTCCAGCAACTGAAC
CTGCCATTACCTGGGCAAGGAAAGATCCCTTTGCTCTAGGAAAGCTTGGCCCAAATTGATTTTCTTCTTTTCC
CCTGTAGGACTGACTGTTGGCTAATTTTGTCAAGCACAGCTGTGCTGGGAAGAGTTAGGGCCAGTGTCTTGAAAA
TCAATCAAGTAGTGAATGTGATCTCTTTCGAGAGCTATAGATAGAAACAGCTGGAAACTAAAGGAAAAATACAA
ATGTTTTCGGGGCATACATTTTTTTCTGGGTGTGCATCTGTTGAAATGCTCAAGACTTAATTATTTGCCTTTTG
AAATCACTGTAAATGCCCCCATCCGTTCTCTCTTCCAGGTGTGCCAAGGAATTAATCTTGGTTTCACTACA
ATTAAAATTCCTCTTTCCAATCATGTGATTGAAAGTGCCTTTAACGAAAGAAATGGTCACTGAATGGGAATTC
TCTTAAGAAACCCCTGAGATTAAAAAAGACTATTTGGATAACTTATAGGAAAGCCTAGAACCTCCCAGTAGAGTG
GGGATTTTTTTCTTCTTCCCTTTCTCTTTTGGACAATAGTTAAATTAGCAGTATTAGTTATGAGTTTGGTTGCAG
TGTTCTTATCTTGTGGGCTGATTTCCAAAAACCACATGCTGCTGAATTTACCAGGGATCCTCATACCTCACAATG
CAAACCACTTACTACCAGGCCTTTTTCTGTGTCCACTGGAGAGCTTGAGCTCACACTCAAAGATCAGAGGACCTA
CAGAGAGGGCTCTTTGGTTTGAGGACCATGGCTTACCTTTCTGCTTTGACCCATCACACCCCATTTCTCTCTC
TTTCCCTCTCCCCGCTGCCAAAAAAGGAAACGTTTATCATGAATCAACAGGGTTTCAGTCCTTATCA
AAGAGAGATGTGGAAAGAGCTAAAGAAACCACCCTTTGTTCCCACTCCACTTTACCCATATTTTATGCAACACA
AACACTGTCTTTTGGGTCCCTTTCTTACAGATGGACCTCTTGAGAAGAATTATCGTATTCCACGTTTTTAGCCC
TCAGGTTACCAAGATAAATATATGTATATATAACCTTTATTATTGCTATATCTTTGTGGATAATACATTCAAGGTG
GTGCTGGGTGATTTATTATAATCTGAACCTAGGTATATCCTTTGGTCTTCCACAGTCATGTTGAGGTGGGCTCCC
TGGTATGGTAAAAAGCCAGGTATAATGTAACCTTCACCCCAGCCTTTGTACTAAGCTCTTGATAGTGGATATACTC
TTTTAAGTTTAGCCCCAATATAGGGTAATGGAAATTTCTGCCCTCTGGGTTCCCATTTTTACTATTAAAGAAGA
CCAGTGATAATTTAATAATGCCACCAACTCTGGCTTAGTTAAGTGAGAGTGTGAAGTGTGAGGCAAGAGAGCCTC
ACACCTCACTAGGTGCAGAGAGCCCAGGCCTTATGTTAAATCATGCATTGAAAAGCAAACCTTAATCTGCAAA
GACAGCAGCAAGCATTATACGGTCATCTTGAATGATCCCTTTGAAATTTTTTTTTTGTGTTGTTGTTTAAATCAA
GCCTGAGGCTGGTGAACAGTAGCTACACACCCATATTGTGTGTTCTGTGAATGCTAGCTCTCTTGAATTTGGATA
TTGGTTATTTTTTATAGAGTGTAACCAAGTTTTATATTCTGCAATGCGAACAGGTACCTATCTGTTTCTAAATA
AAACTGTTTACATTCAAAAA

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FIGURE 109

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHNDASQSFYDHD AFLGAEAAKTFDQLTPEEKERLGK
IVSKIDGDKDGFVTVD ELKDWIKFAQKRWIYEDVERQWKGHDLNEDGLVSWEEYKNATYGYVLDDPDPDDGFNYK
QMMVRDERRFKMADKDGDLIATKEEFTAF LHP E EYDYMKD I VVQETMEDIDKNADGFIDLEEYIGDMYSHDGNTD
EPEWVKTEREQFVEFRDKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQNKDGKLTKEEIVDKYDLFVGS
QATDFGEALVRHDEF

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FIGURE 110A

GGCCGGCGGTGGCGGCGGCGAGGGCTGGACTCGGGCTTAGGGCCTGCTGTGGAGGCAGCGGCGGACGCCGAGCTA
AGCAGTTTCTCTGGAACCCCCCTGGTAAGTGTGGAGGAGGCGGGACACTCTGACCCAAGACGAAAGGCCTGTAG
CTCCAGCCAAAGAAAAATAACCTTAGGAGGGAGAAGGAAAAAAAAAATCCATCAGCTGTTCTGAGAACAGCCT
GCATTGGAATCTACAGAGAGGACAATAATGTGAGTGAGGAAGTACTGTATGTGGACTGTGGAGAAAGTAAGTC
ACGTGGGCCCTTGAGGACCTGGACTGGGTTAGGAACAGTTGTACTTTCAGAGGTGAGGTGTGAGAAGGGAAAGT
GAATGTGGTCTGGAGTGTGTCCTTGGCCTTGGCTCCACAGGGTGTGCTTTCCTCTGGGGCCGTCAGGGAGCTCAT
CCCTTGTTCTGCGAGGGTGGGGTACGGGGTTTGACACTGAGGAGGGTAACCTGCTGGCTGGAGCGGCAGAGCA
GTGGCCTTGATTGTCTTTTGAAGATTTTAAAAACCAAAAAGCATAAACATTCTGGTCCTTCAGCAATGCTTTC
TCTGAAGAAATACTTAACGGAAGGACTTCTCCAGTTTACCATTCTGCTGAGTTTGATTGGGGTACGGGTGGACGT
GGATACTTACCTGACCTCACAGCTTCCCCACTCCGGGAGATCATCTGGGGCCAGTTCTGCCTATACTCAGAC
CCAGTTCCACAACCTGAGGAATACCTTGGATGGCTATGGTATCCACCCCAAGAGCATAGACCTGGACAATTACTT
CACTGCCCCGCGGCTCCTCAGTCAGGTGAGGGCCCTGGACAGGTTCCAGGTGCCAACCACTGAGGTAAATGCCTG
GCTGGTTTACCAGAGACCCAGAGGGGTCTGTCTCTGGCAGTCAGCCCAACTCAGGCCTCGCCCTCAGAGATTCCAG
TGGCCTCCAAGATGTGACAGGCCCAGACAACGGGGTGCAGAGAAAGCGAAACGGAGCAGGGATTGGTGAAGATTT
GGAGGATTTGGGGGCTGTAGCCCCCAGTCAGTGGAGACTTAACCAAAGAGGACATAGATCTGATTGACATCCT
TTGGCGACAGGATATTGATCTGGGGGCTGGGCGTGAGGTTTTTGTACTATAGTCACCGCCAGAAGGAGCAGGATGT
GGAGAAGGAGCTGCGAGATGGAGGCGAGCAGGACACCTGGGCAGGCGAGGGCGCGGAAGCTCTGGCACGGAACCT
GCTAGTGGATGGAGAGACTGGGGAGAGCTTCCCTGCACAGGTGCCTAGTGGGGAGGACCAGACGGCCCTGTCCCT
GGAAGAGTGCCTTAGGCTGCTGGAAGCCACCTGCCCTTTGGGGAGAATGCTGAGTTTCCAGCAGACATTTCCAG
CATAACAGAAGCAGTGCCTAGTGAGAGTGAGCCCCCTGCTCTTCAAACAACCTCTTGTCTCCTCTTCTGACCGG
GACAGAGTCACCATTTGATTTGGAACAGCAGTGGCAAGATCTCATGTCCATCATGGAAATGCAGGCCATGGAAGT
GAACACATCAGCAAGTGAAATCCTGTACAGTGGCCCTCCTGGAGACCCACTGAGCACCAACTACAGCCTTGCCCC
CAACACTCCCATCAATCAGAATGTCAGCCTGCATCAGGCGTCCCTGGGGGGCTGCAGCCAGGACTTCTTACTCTT
CAGCCCCGAGGTGGAAAGCCTGCCTGTGGCCAGTAGCTCCACGCTGCTCCCGTTGGCCCCCAGCAATTCTACCAG
CCTCAACTCCACCTTCGGCTCCACCAACCTGACAGGGCTCTTCTTCCACCCAGCTCAATGGCACAGCCAATGA
CACAGCAGGCCCAGAGCTGCCTGACCCTTTGGGGGGTCTGTTAGATGAAGCTATGTTGGATGAGATCAGCCTTAT
GGACCTGGCCATTGAAGAAGGCTTTAACCTGTGCAGGCCTCCAGCTGGAGGAGGAATTTGACTCTGACTCAGG
CCTTTCCTTAGACTCGAGCCATAGCCCTTCTTCCCTAAGCAGCTCTGAAGGCAGTTCTTCTCTTCTTCTCCTC
CTCTTCTCTTCTTCTCTGCTTCTTCTCTGCTCTTCTCTCTTCTTCTGAGGAAGGTGCGGTTGGCTACAGCTC
TGACTCTGAGACCTGGATCTGGAAGAGGCCGAGGGTGTGTGGGCTACCAGCCTGAGTATTCCAAGTTCTGCCG
CATGAGCTACCAGGATCCAGCTCAGCTCTCATGCCTGCCCTACCTGGAGCACGTGGGCCACAACCACACATACAA
CATGGCACCCAGTGCCCTGGACTCAGCCGACCTGCCACCACCCAGTGCCCTCAAGAAAGGCAGCAAGGAGAAGCA
GGCTGACTTCTTGACAAGCAGATGAGCCGGGATGAGCACCGAGCCGAGCCATGAAGATCCCTTTACCAATGA
CAAAATCATCAACCTGCCTGTGGAGGAGTTCAATGAACTGCTGTCCAAATACCAGTTGAGTGAAGCCCAGCTGAG
CCTCATCCGAGACATCCGGCGCCGGGGCAAGAACAAGATGGCGGCGCAGAACTGCCGCAAGCGCAAGCTGGACAC
CATCCTGAATCTGGAGCGTGATGTGGAGGACCTGCAGCGTGACAAAGCCCGGCTGCTGCGGGAGAAAGTGGAGTT
CCTGCGCTCCCTGCGACAGATGAAGCAGAAGGTCCAGAGCCTGTACCAGGAGGTGTTTGGGCGGCTGCGAGATGA
GAACGGACGACCCTACTCGCCCAGTCAGTATGCGCTCCAGTACGCCGGGGACGGCAGTGTCTCCTCATCCCCCG
CACGATGGCCGACCAGCAGGCCCGGGCGGCAGGAGAGGAAGCCAAAGGACCGGAGAAAGTGAAGCCTGGGGAAGAAG
GGGGTTTGAAGCCACCAAGACCGAAACTGGAGAAGGGCTGGACCTGGACCTGGACCTGGACCTACAGCGGGGAC
TTAAATGCCTTCTTATCCAATATATCTTCTCAGATGGGATGACTGCGGGTCAGTGTACAGGAAGAGGCAGGCACT
GGCTGGCTCAGTCCACTCGGGTGGAGTGGAAAGTGCCAGACCATTTAGACGGACAGGGTCTCACCCCTACCCCT
TTCTGTGAGGCAGGGGTGGTGGTGGAGTTGCTGGAGGTAGAGGAGCTATGTGGAGCAAAGGCCGACAGAGGGGA
AGGAATGGACCTGTGAGAGGAAGGAAGGTGGCAGAAAGTCTCATTTAGGAAGGAGGGATAGAAGGAAGGAAGG
AAGGAACCCCCCCCCCCCCGAAAAAAAAATCAAAGCGGGAAGAAAATCAGAGGGAAGGTTAAGGTTGGCTCTG
GCCAGGATTCAGGCAGCAGGTTGGAGTGAAGTGGTGGGCTTAGATCACTGGTGTGATAAACCCCATTTACCCCCG
GGGGGGGTGGGGTACACAGACACAGGTGGGGGTGGGGAGGGGCGGTGTTAACTCTTCTGCTCCTTGCAATTTG
ACATCCCTGAAGGGGAGCTCTTGATATCATTGGCCATGTTTCAATCGAATGGAGCCACTGGGCCCCAACACTGG

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FIGURE 110B

CTTTGAGATTTAGAGTCAAAGGGTAGAGTGAACAGGAAAAGGGTCACGTGGTCCCATGTTGCAACAGCCCCAACAT
CACGCATGTCATTCACTGCCTTGCCACTCCATCTCCCTCCGTGCTCCAGCCACCCCTGAGCTGAGGCTCCCATTG
TCTCCATCAGAGCCTGCATGTGTATGCCGTCCTCCCCTGGTCCGGTGTTTGTGTTCCCCACCCCTCACAGACTGC
CTGAGCTCTTCTGTAAGCTGGGGTAGGGTGATGGCAGTGCTCCGGGAAC TGGGCCTGCAGCCTTCCTCTTCTGGG
ACTGCTGTGAGGCAGAGGAATGATGGAGAATCTAGTGTAGCAGCCTCCAGGCAGGATT CAGCACAACTGGGGA
GTCACCCTTCCCTCGGGCCTCTGCCTACCAACAAC TGGGCTTATCACTGGGAAAACACAAAAAATTACACAACCC
AGCAACAACAAAAGAACTAGTCCTCTTAGAATTTCTTGCGCTTTGATTTTTTTAGGGCTTGTGCCCTGTTTCACT
TATAGGGTCTAGAATGCTTGTGTTGAGTAAAAAGGAGATTCCCAATATTCAAAGCTGTAAATGTTCTCTTTGCC
ATAAAGACTCCGTGTAAC TGTGTGAACACTTGGGATTTTTCTCCTCTGTCCCGAGGTCGTCGTCTGCTTTCTTTT
TTGGGTTTCTTTCTAGAAGATTGAGAAGTGCATATGACAGGCTGAGAGCACCTCCCCAAACACACAAGCTCTCAG
CCACAGGCAGCTTCTCCACAGCCCCAGCTTCGCACAGGCTCCTGGAGGGCTGCCTGGGGGAGGCAGACATGGGAG
TGCCAAGGTGGCCAGATGGTTCCAGGACTACAATGTCTTTATTTTTTA ACTGTTTGCCACTGCTGCCCTCACCCCT
GCCCCGCTCTGGAGTACCGTCTGCCCCAGACAAGTGGGAGTGAAATGGGGGTGGGGGAAGCACTGATTCCCAGT
TAGGGGGTGCCTA ACTGAGCAGTAGGGATAGAAGGTGTGAACCTGGGAGTGCTTTTATAAATTATTTTCTTGTA
GATTTTATTTTTTAATTTATCTCTGTGACCTGCCAGGGAGAGGGGAGAGAGAGAGAGATGCTGTTGAGCACATGAC
AAAATAAAATAAAATGGATGATTCAAAAAAAAAA

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FIGURE 111

MLSLKKYLTEGLLQFTILLSLIGVRVDVDTYLTSQLPPLREIILGPSSAYTQTQFHNLRNTLDGYGIHPKSIDLD
NYFTARRLLSQVRALDRFQVPTTEVNAWLVHRDPEGSVSGSQPNGLALESSGLQDVTGPDNGVRESETEQGF
EDLEDLGAVAPPVSGDLTKEDIDLIDILWRQDIDLGAGREVFYSHRQKEQDVEKELRDGGEQDTWAGEGAEALA
RNLLVDGETGESFPAQVPSPGEDQTALSLEECLRLLEATCPFGENAEPADISSITEAVPSESEPPALQNNLLSPL
LTGTESPFDLQWQDLMSIMEMQAMEVNTSASEILYSAPPGDPLSTNYSIAPNTPINQNVSLHQASLGGSQDF
LLFSPEVESLPVASSSTLLPLAPSNSTSLNSTFGSTNLTGLFFPPQLNGTANDTAGPELPDPLGGLLDEAMLDEI
SLMDLAIEEGFNPVQASQLEEEFDSDSGLSLDSSHSPSSLSSSEGGSSSSSSSSSSSSSSASSASSSSFSEEGAVG
YSSDSETLDLEEAEGAVGYQPEYSKFCRMSYQDPAQLSCLPYLEHVGHNHTYNMAPSALDSADLPPPSALKKGSK
EKQADFLDKQMSRDEHRARAMKIPFTNDKIINLPVEEFNELLISKYQLSEAQLSLIRDIRRGKNKMAAQNCRKRK
LDTILNLERDVEDLQRDKARLLREKVEFLRSLRQMKQKVQSLYQEVFGRLRDENGRPYSPSQYALQYAGDGSVLL
IPRTMADQQARRQERKPKDRRK

[illegible]

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FIGURE 113

MQPSSLLPLALCLLAAPASALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYM
DAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGY
LSQDTVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLVD
QNIFSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLVNTRKAYWQVHLDQVEVASGLTLCKEGCEAIVDTGTSL
MVGPFVDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAITLKLGGKGYKLSPEDYTLKVSQAGKTLCLSGFMGMDI
PPPSGPLWILGDVFIGRYYTVFDRDNNRVGF AEAARL

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FIGURE 114A

CGCGACTCTCGGGCACGCGCTCGGAAGTCTGGGGTCTGGCGCGGAGTGACAGGCTGCTCCCGGGGTAGGTGAGGGAAGC
GCGGAGGCGGGGCGCGGGGGCAGTGGTCTGGCGAGCAGCGCGGTCTCTGCTAGGGGCGCCCACCCGTCAGTCTCTC
CGGCGCGAGCCGCCGCCACCGCCCGCGCCGGAGTCAGGCCCTTGGGCCCCCAGGCTCAAGCAGCGAAGCGGCCTC
CGGGGGACGCCGCTAGGCGAGAGGAACGCGCCGGTGCCCTTGCCCTTCGCCGTGACCCAGCGTGCGGGGCGGCGGGA
TGAGAGGGAGCCATCGGGCCGCGCCGGCCCTGCGGCCCCGGGGGCGGCTCTGGCCCGTGCTGGCCGTGCTGGCGG
CGGCCGCCGCGGCGGGGCTGTGCCAGGCGAGCCATGGACGAGTGCACGGACGAGGGCGGGGCGGCCGAGCGCTGCA
TGCCCCGAGTTTCGTCAACGCCGCTTTCAACGTGACTGTGGTGCCACCAACACGTGTGGGACTCCGCCCGAGGAAT
ACTGTGTGCAGACCGGGGTGACCGGGGTACCAAGTCTCTGTACCTGTGCGACGCCGGGCGAGCCCCACCTGCAGC
ACGGGGCAGCCTTCTGACCGACTACAACAACAGGCCGACACCACCTGGTGCCAAAGCCAGACCATGCTGGCCG
GGGTGCAGTACCCAGCTCCATCAACCTCAGCTGCACCTGGGAAAAGCTTTTGACATCACCTATGTGCGTCTCA
AGTTCCACACCAGCGCCCGGAGAGCTTTGCCATTTACAAGCGCACACGGGAAGACGGGCCCTGGATTCTTTACC
AGTACTACAGTGGTTCCTGCGAGAACACCTACTCCAAGGCAAACCGCGGCTTCATCAGGACAGGAGGGGACGAGC
AGCAGGCCTTGTGTACTGATGAATTTCAGTGACATTTCTCCCTCACTGGGGGCAACGTGGCCCTTTTCTACCTGG
AAGGAAGGCCACGCGCTATAACTTTGACAATAGCCCTGTGCTGCAGGAATGGGTAAGTCCACTGACATCAGAG
TAACCTCTTAATCGCCTGAACACTTTTGGAGATGAAGTGTTTAAAGATCCCAAAGTTCTCAAGTCTATTATTATG
CCATCTCTGATTTTGTGTAGGTGGCAGATGTAAATGTAATGGACACGCAAGCGAGTGTATGAAGAACGAATTTG
ATAAGCTGGTGTGTAATTGCAAACATAACACATATGGAGTAGACTGTGAAAAGTGTCTTCCTTTCTTCAATGACC
GGCCGTGGAGGAGGGCAACTGCGGAAAGTGCCAGTGAATGCCTGCCCTGTGATTGCAATGGTCGATCCCAGGAAT
GCTACTTCGACCCTGAACCTCTATCGTTCCACTGGCCATGGGGGCCACTGTACCAACTGCCAGGATAACACAGATG
GCGCCCACTGTGAGAGGTGCCGAGAGAACTTCTTCCGCTTGGCAACAATGAAGCCTGCTCTTCATGCCACTGTA
GTCCTGTGGGCTCTCTAAGCACACAGTGTGATAGTTACGGCAGATGCAGCTGTAAGCCAGGAGTGTATGGGGGACA
AATGTGACCGTTGCCAGCCTGGATTCCATTCTCTCACTGAAGCAGGATGCAGGCCATGCTCTTGTGATCCCTCTG
GCAGCATAGATGAATGTAATGTTGAAACAGGAAGATGTGTTGCAAAGACAATGTGCAAGGCTTCAATTGTGAAA
GATGCAAACCTGGATTTTTTAATCTGGAATCATCTAATCCTCGGGGTGTCACACCCTGCTTCTGCTTTGGGCATT
CTTCTGTCTGTACAAACGCTGTTGGCTACAGTGTTTATTCTATCTCCTCTACCTTTTCAGATTGATGAGGATGGGT
GGCGTGCGGAACAGAGAGATGGCTCTGAAGCATCTCTCGAGTGGTCTCTGAGAGGCAAGATATCGCCGTGATCT
CAGACAGCTACTTTTCTCGGTACTTTCATTGCTCCTGCAAAGTTCTTGGGCAAGCAGGTGTTGAGTTATGGTCAGA
ACCTCTCCTTCTCCTTTTCGAGTGGACAGGCGAGATACTCGCCTCTCTGCCGAAGACCTTGTGCTTGAGGGAGCTG
GCTTAAGAGTATCTGTACCCTTGATCGCTCAGGGCAATTCCTATCCAAGTGAGACCACTGTGAAGTATGTCTTCA
GGCTCCATGAAGCAACAGATTACCCCTTGGAGGCCTGCTCTTACCCCTTTTGAATTTTCAAAGCTCCTAAACAAC
TGACCTCTATCAAGATACGTGGGACATACAGTGAGAGAAAGTGTGGATATTTGGATGATGTACCCCTGGCAAGTG
CTCGTCTCGGGCCTGGAGTCCCTGCAACTTGGGTGGAGTCTCTGCACCTGTCTGTGGGATATGGAGGGCAGTTTT
GTGAGATGTGCCTCTCAGGTTACAGAAGAGAAACTCCTAATCTTGGACCATAACAGTCCATGTGTGCTTTGCGCCT
GCAATGGACACAGCGAGACCTGTGATCCTGAGACAGGTGTTTGTAAGTGCAGAGACAATACGGCTGGCCCCGCACT
GTGAGAAGTGCAGTGATGGGTACTATGGAGATTCAACTGCAGGCACCTCCTCCGATTGCCAACCCCTGTCCGTGTC
CTGGAGGTTCAAGTTGTGCTGTTGTTCCCAAGACAAAGGAGGTGGTGTGCACCAACTGTCTACTGGCACCACTG
GTAAGAGATGTGAGCTCTGTGATGATGGCTACTTTGGAGACCCCTGGGTAGAAACGGCCCTGTGAGACTTTGCC
GCCTGTGCCAGTGCAGTGACAACATCGATCCCAACGCAGTTGGAAATTGCAATCGCTTGACGGGAGAATGCCTGA
AGTGCATCTATAACACTGCTGGCTTCTATTGTGACCGGTGCAAAGACGGATTTTTTGGAAATCCCTGGCTCCCA
ATCCAGCAGACAAATGCAAAGCCTGCAATTGCAATCCGTATGGGACCATGAAGCAGCAGAGCAGCTGTAACCCCG
TGACGGGGCAGTGTGAATGTTTGCCCTACGTGACTGGCCAGGACTGTGGTGCTTGTGACCCTGGATTCTACAATC
TGCAGAGTGGGCAAGGCTGTGAGAGGTGTGACTGCCATGCCCTGGGCTCCACCAATGGGCAGTGTGACATCCGCA
CCGGCCAGTGTGAGTGCCAGCCCGGCATCACTGGTCAAGCACTGTGAGCGCTGTGAGGTCAACCACTTTGGGTTTG
GACCTGAAGGCTGCAAACCCCTGTGACTGTCTATCCTGAGGGATCTCTTTCACTTCAGTGCAAAGATGATGGTCGCT
GTGAATGCAGAGAAGGCTTTGTGGGAAATCGCTGTGACCAGTGTGAAGAAAATATTTCTACAATCGGTCTTGGC
CTGGCTGCCAGGAATGTCCAGCTTGTACCGGCTGGTAAAGGATAAGGTTGCTGATCATAGAGTGAAGCTCCAGG
AATTAGAGAGTCTCATAGCAAACCTTGGAACTGGGGATGAGATGGTGACAGATCAAGCCTTCGAGGATAGACTAA
AGGAAGCAGAGAGGGAAGTTATGGACCTCCTTCGTGAGGCCCAGGATGTCAAAGATGTTGACCAGAATTTGATGG

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FIGURE 114B

ATCGCCTACAGAGAGTGAATAACACTCTGTCCAGCCAAATTAGCCGTTTACAGAATATCCGGAATACCATTGAAG
AGACTGGAAACTTTGGCTGAACAAGCGCGTGCCCATGTAGAGAACACAGAGCGGTTGATTGAAATCGCATCCAGAG
AACTTGAGAAAGCAAAAGTCGCTGCTGCCAATGTGTCTAGTCACTCAGCCAGAATCTACAGGGGACCCAAACAACA
TGACTCTTTTGGCAGAAGAGGCTCGAAAGCTTGCTGAACGTCATAAACAGGAAGCTGATGACATTGTTTCGAGTGG
CAAAGACAGCCAATGATACGTCAACTGAGGCATACAACCTGCTTCTGAGGACACTGGCAGGAGAAAAATCAAACAG
CATTTGAGATTGAAGAGCTTAATAGGAAGTATGAACAAGCGAAGAACATCTCACAGGATCTGGAAAAACAAGCTG
CCCGAGTACATGAGGAGGCCAAAAGGGCCGGTGACAAAGCTGTGGAGATCTATGCCAGCGTGGCTCAGCTGAGCC
CTTTGGACTCTGAGACACTGGAGAATGAAGCAAATAACATAAAGATGGAAGCTGAGAATCTGGAACAACTGATTG
ACCAGAAATTAAAAGATTATGAGGACCTCAGAGAAGATATGAGAGGGAAGGAACCTTGAAGTCAAGAACCTTCTGG
AGAAAGGCAAGACTGAACAGCAGACCGCAGACCAACTCCTAGCCCGAGCTGATGCTGCCAAGGCCCTCGCTGAAG
AAGCTGCAAAGAAGGGACGGGATACCTTACAAGAAGCTAATGACATTCTCAACAACCTGAAAGATTTTGATAGGC
GCGTGAACGATAACAAGACGGCCGAGAGGAGGCACTAAGGAAGATTCTGCCATCAACCAGACCATCACTGAAG
CCAATGAAAAGACCAGAGAAGCCAGCAGGCCCTGGGCAGTGTGCGGCGGATGCCACAGAGGCCAAGAACAAGG
CCCATGAGGCGGAGAGGATCGCAAGCGCTGTCCAAAAGAATGCCACCAGCACCAAGGCAGAAGCTGAAAGAAGCTT
TTGCAGAAGTTACAGATCTGGATAATGAGGTGAACAATATGTTGAAGCAACTGCAGGAAGCAGAAAAAGAGCTAA
AGAGAAAACAAGATGACGCTGACCAGGACATGATGATGGCAGGGATGGCTTACAGGCTGCTCAAGAAGCCGAGA
TCAATGCCAGAAAAGCCAAAACTCTGTTACTAGCCTCCTCAGCATTATTAATGACCTCTTGAGCAGCTGGGGC
AGCTGGATACAGTGGACCTGAATAAGCTAAACGAGATTGAAGGCACCCTAAACAAAGCCAAAGATGAAATGAAGG
TCAGCGATCTTGATAGGAAAGTGTCTGACCTGGAGAATGAAGCCAAGAAGCAGGAGGCTGCCATCATGGACTATA
ACCGAGATATCGAGGAGATCATGAAGGACATTTCGAATCTGGAGGACATCAGGAAGACCTTACCATCTGGCTGCT
TCAACACCCCGTCCATTGAAAAGCCCTAGTGTCTTTAGGGCTGGAAGGCAGCATCCCTCTGACAGGGGGGAGTT
GTGAGGCCACAGAGTGCCTTGACACAAAGATTACATTTTTTCAGACCCCCACTCCTCTGCTGCTGTCCATCACTGT
CCTTTTGAACCAGGAAAAGTCACAGAGTTTAAAGAGAAGCAAATTAAACATCCTGAATCGGGAACAAAGGTTTTT
ATCTAATAAAGTGTCTCTTCCATCACGTTGCTACCTTACCCACACTTCCCTCTGATTTGCGTGAGGACGTGGCAT
CCTACTTACGTACGTGGCATAACACATCGTGTGAGCCCATGTATGCTGGGGTAGAGCAAGTAGCCCTCCCCTGTC
TCATCGATCCAGCAGAACCTCCTCAGTCTCAGTACTCTTGTTTTCTATAAGGAAAAGTTTTGCTACTAACAGTAGC
ATTGTGATGGCCAGTATATCCAGTCCATGGATAAAGAAAATGCATCTGCATCTCCTGCCCTCTTCTCTTAAGC
AAAAGGAAATAAACATCCTGTGCCAAAGGTATTGGTCATTTAGAATGTCGGTAGCCATCCATCAGTGCTTTTAGC
TATTATGAGTGTAGGACACTGAGCCATCCGTGGGTGAGGATGCAATTATTTATAAAAGTCCCCAGGTGAACATGG
CTGAAGATTTTTCTAGTATATTAATAATTGACTAGGAAGATGAACTTTTTTTTCAGATCTTTGGGCAGCTGATAAT
TTAAATCTGGATGGGCAGCTTGCACTCACCAATAGACCAAAAGACATCTTTTGATATTCTTATAAATGGAACCTTA
CACAGAAGAAATAGGGATATGATAACCACTAAAGTTTTGTTTTCAAATCAAACCTAATTCTTACAGCTTTTTTAT
TAGTTAGTCTTGGAAGTGTGTTAAGTATCTGGCAGAGAACAGTTAATCCCTAAGGTCTTGACAAAACAGAAAGAA
AAACAAGCCCTCCTCGTCCTAGTCTTTTCTAGCAAAGGGATAAACTTAGATGGCAGCTTGTACTGTCAGAATCCC
GTGTATCCATTTGTTCTTCTGTTGGAGAGATGAGACATTTGACCCCTAGCTCCAGTTTTCTTCTGATGTTCCAT
CTTCCAGAATCCCTCAAAAAACATTGTTTGCCAAATCCTGGTGGCAAATACTTGCACTCAGTATTTACACAGCT
GCCAACGCTATCGAGTTCCTGCACTTTGTGATTTAAATCCACTCTAAACCTTCCCTCTAAGTGATAGAGGGAAGAC
CCTTACGTGGAGTTTCTAGTGGGCTTCTCAACTTTTGATCCTCAGCTCTGTGGTTTTTAAGACCACAGTGTGACA
GTTCCCTGCCACACACCCCTTCTCCTTACCAACCCACCTTTGAGATTTCATATATAGCCTTTAACTATGCAAC
TTTGTACTTTGCGTAGCAGGGGCTGGGGTGGGGGGAAAGAAACCTATTATCATGGACACACTGGTGCTATTAATT
ATTTCAAATTTATATTTTTGTGTGAATGTTTTGTGTTTTGTTTATCCATGCTATAGAACAAGGAATTTATGTAGA
TATACTTAGTCCTATTTCTAGAATGACACTCTGTTCACTTTGCTCAATTTTTCTCTTCACTGGCACAAGTATCT
GAATACCTCCTTCCCTCCCTTCTAGAGTCTTTGGATTGTACTCCAAAGAATTGTGCCTTGTGTTTGCAGCATCT
CCATTCTCTAAATTAATATAATTGCTTTCCCTCCACACCCAGCCACGTAAAGAGGTAAGTTGGGTCCCTCTTCCATT
GCAGTCTGATGATCCTAACCTGCAGCACGGTGGTTTTACAATGTTCCAGAGCAGGAACGCCAGGTTGACAAGCT
ATGGTAGGATTAGGAAAGTTTGTGTAAGAGGATCTTTGACGCCACAGTGGGACTAGCCAGGAATGAGGGAGAAAT
GCCCTTTTTGGCAATTGTTGGAGCTGGATAGGTAAGTTTTATAAGGGAGTACATTTTACTGAGCACTTAGGGCA
TCAGGAACAGTGCTACTTACTGGTGGGTAGACTGGGAGAGGTGGTGTAACTTAGTTCTTGATGATCCCACTTCTCT

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FIGURE 114C

GTTTCCATCTGCTTGGGATATACCAGAGTTTACCACAAGTGTTTTGACGATATACTCCTGAGCTTTCACTCTGCT
GGCTTCTCCCAGGCCTCTTCTACTATGGCAGGAGATGTGGTGTGCTGTTGCAAAGTTTTACGTCATCGTTTCCT
GGCTAGTTCATTTCAATTAAGTGGCTACATCCTAACATATGCATTGGTCAAGGTTGCAGCAAGAGGACTGAAGATT
GACTGCCAAGCTAGTTTGGGTGAAGTTCCTCCAGCAAGTCTCAGGCCACAATGGGGTGGTTTGGTTTGGTTTCC
TTTTAACTTTCTTTTTGTTATTTGCTTTTCTCCTCCACCTGTGTGGTATATTTTTTAAGCAGAATTTTATTTTTT
AAAATAAAAGGTTCTTTACAAGATGATACCTTAATTACACTCCCGCAACACAGCCATTATTTTATTGTCTAGCTC
CAGTTATCTGTATTTTATGTAATGTAATTGACAGGATGGCTGCTGCAGAATGCTGGTTGACACAGGGATTATTAT
ACTGCTATTTTTCCCTGAATTCCTTTTCCTTGGAATTCCAACGTGGACCTTTTATATGTGCCTTCACTTTAGCTG
TTTGCTTACTCTACAGCCTTGCTCTCCGGGGTGGTTAATAAAATGCAACACTTGGCATTTTTATGTTATAAGAA
AAACAGTATTTTATTTATAATAAAATCTGAATATTTTGTAACCCTTTA

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FIGURE 115

MRGSHRAAPALRPRGRRLWPVLAVLAAAAAAGCAQAAMDECTDEGGRPQRCMPEFVNAAFNVTVVATNTCGTPPEE
YCVQTGVTGVTKSchLCDAGQPHLQHGAFLTDYNNQADTTWWQSQTMLAGVQYPSSINLTTLHLGKAFDITYVRL
KFHTSRPESFAIYKRTREDGPWIPYQYYSGSCENTYSKANRGFIRTGGDEQQALCTDEFSDISPLTGGNVAFSTL
EGRPSAYNFDNSPVLQEWVTATDIRVTNLRLNTFGDEVFNDPKVLKSYYYAISDFAVGGRCKCNHASECMKNEF
DKLVCNCKHNTYGVDCCKLPFFNDRPWRRATAESASECLPCDCNGRSQECYFDPELYRSTGHGGHCTNCQDNTD
GAHCERCRENFFRLGNNEACSSCHCSPVGSLSSTQCD SYGRCSCKPGVMGDKCDRCQPGFHSLTEAGCRPCSCDPS
GSIDE CNVETGRCVCKDNVEGFNCERCKPGFFNLESSNPRGCTPCFCFGHSSVCTNAVGYSVYSISSTFQIDEDG
WRAEQRDGSEASLEWSSERQDIAVISDSYFPRYFIAPAKFLGKQVLSYGQNLFSFRVDRDRTRLSAEDLVLEGA
GLRVSVPLIAQGNSYPSETTVKYVFRLEADYDYPWRPALTPFEFQKLLNNLTSLIKIRGTYSERSAGYLDLVTLAS
ARPGPGVPATWVESCTCPVGYGGQFCMCLSGYRRET PNLGPYSPCVLCACNGHSETCDPETGVCNCRDNTAGPH
CEKCS DGYGDS TAGTSSDCQPCPCPGSSCAVVPKTKEVVCTNCPTGTTGKRCELCDG YFGDPLGRNGPVRCL
RLCQCSDNIDPNAVGN CNRLTGECLKCIYNTAGFYCDRCKDGF FGNPLAPNPADKCKACNCNPNYGTMKQQSSCNP
VTGQCECLPHVTGQDCGACDPGFYNLQSGQGCERCDC HALGSTNGQCDIRTGQCECQPGITGQH CERCEVNHFGF
GPEGCKPCDCHPEGSLSLQCKDDGRCECREGFVGNRCDQCEENYFYNRSWPGCQEC PACYRLVKDKVADHRVKLQ
ELES LIANLGTGDEMVT DQAFEDRLKEAEREVM DLLREAQDV KDVDQNLMDRLQRVNNTLSSQISRLQNI RNTIE
ETGNLAEQARAHVENTERLIEIASRELEKAKVAAANVSVTQPESTGDPNNMTLLAEEARKLAERHKQEADDIVRV
AKTANDTSTEAYNLLLRTL LAGENQTAFEIEELNRKYEQAKNISQDLEKQAARVHEEAKRAGDKAVEIYASVAQLS
PLDSETLENEANNIKMEAENLEQLIDQKLKDYEDLREDMRGKELEVKNLLEKGKTEQQTADQLLARADA AKALAE
EAAKKGRD TLQEANDILNNLKDFDRRVNDNKTAEEALRKIPAINQTITEANEKTREAAQALGSAAADATEAKNK
AHEAERIASAVQKNATSTKAE AERTFAEVTDL DNEVNNMLKQLQEAEKELKRKQDDADQMMMAGMASQAAQEA E
INARKAKNSVTSLLSIINDLLEQLGQLD TVDLNKLNEIEGTLNKAKDEMKVSDLD RKVSDLENEAKKQEAAIMDY
NRDIEEIMKD IRLNLEDIRKTLPSGCFNTPSIEKP

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FIGURE 116

GGCATCACCGGCCAGCCGGGTGGAGT[^]GAGCGGCGCTGGGCTCCGGCTCCGCGGGCGGAAGAGGCGGCGG
CGGCGGCAGAAAGCGGCGGCGGCGGCGGCGGCGGCGGAGCCGAGGAGGAGGTTCCGGACGCTGCTTAGGAACCGGGGA
CTCAGGAGTGCCCGCGCCCTGAGCGCTCAGCTCCAGAGGCGTC~~ATCG~~CTGAGTACGGGACCCTCCTGCAAGACCT
GACCAACAACATCACCTTGAAGATCTAGAACAGCTCAAGTCGGCCTGCAAGGAAGACATCCCCAGCGAAAAGAG
TGAGGAGATCACTACTGGCAGTGCCTGGTTTAGCTTCCTGGAGAGCCACAACAAGCTGGACAAAGACAACCTCTC
CTACATTGAGCACATCTTTGAGATCTCCCGCCGTCCTGACCTACTCACTATGGTGGTTGACTACAGAACCCGTGT
GCTGAAAATCTCTGAGGAGGATGAGCTGGACACCAAGCTAACCCTATCCCCAGTGCCAAGAAGTACAAAGACAT
TATCCGGCAGCCCTCTGAGGAAGAGATCATCAAATTGGCTCCCCCACCGAAGAAGGCC~~TGAG~~CAAGGGGGAGGAA
GAGGAGGAAGGTTGGACCTTCATCAGACCACTCCCTTCCCCCATCCTCCAGGAGAGGGGGCAAGGGCAACCCACC
ATCTACCCACTTACTAACCCTGGTCCTAACCCTTACTGTGCGCGTGTGTGTGCGTGTGCGCACGCTCTGGCTGT
TTGTCTATATGTCTAGCTCATCTAGTTCTCTTCTTAAGGGGATGGGGGTGAGGGGCTAGGGGAGGGGGCTGAGT
TTCCCCACTTTAGGAGGAGGTGGGGCTATTTCTATGCAAATAGAAATCAGCACATTCTCTACTTCCCTTTCC
TCCACTCCCCCATATCTTTAAAGTGTGGAAGCAGAAAGGACCTGCATTTTCTACATTGAGGAGCTGACATAGG
GGTAAGGTATGGGAGAGGTAGGTGGATCCAGGGAAAAGCAGTGGGGACGGAAGGCAAAGAGACCACTCAACCCCC
ACCTGGAAGGGGGCAAAGAAAAGCCAGAGTTCCATGTTTGTACTCCTGTGCTGGACTGTTTCTGAGTACCAGCAG
GTCCCTTTTTGTCTCTCATGGGCCTAGCATAGGTATGAGCCAGGGATCCTTTCTGGTCCCTAAGATCAAACCCC
ATGGAGCAGCCAGCGTTAGATGCCCCACCCACCTGTACTCTGGAGAGACTGTGCTGGGAACATGTACCACTGAG
CCTGAGATGGGGATGAGGGCAGAGAGAGGGGAGCCCCCTCTTCCACTCAGTTGTTCTACTCAGACTGTTGCACT
CTAAACCTAGGGAGGTTGAAGAATGAGACCTTAGGTTTTAACACGAATCCTGACACCACCATCTATAGGGTCCC
AACTTGTTTATTGTAGGCAACCTTCCCTCTCTCCTTGGTGAAGAACATCCCAAGCCAGAAAGAAGTTAACTACAG
TGTTTTCTTTTGACCGATCCCCACCCCAATTCAATCCCGGAAGGGACTTACTTAGGAAACCTTCTTTACTAGA
TATCCTGGCCCCCTGGGCTTGTGAACACCTCCTAGCCACATCACTACAGTACAGTGAGTGACCCAGCCTCCTGC
CTACCCCAAGATGCCCCCTCCCCACCCTGACCGTGCTAACTGTGTGTACATATATATTCTACATATATGTATATTA
AAACTGCACTGCCATGTCTGCCCTTTTTTGTGGTGTCTAGCATTAATTATTGTCTAGGCCAGAGCGGGGGTGGG
AGGGGAATGCCACAGTGAAGGGAGTGGCAGAATCAAATTGCTACATAGTCCAAACAAAAAAGAAGGCTTTTTCAA
AAAACATTAAATTCACATGCAGTCTCAGAGACTATTTAGACAAAGTTCAAGTTAGGAGCTTTTAGGATGTGGGAG
TAAACCTTTAATGGGAGGGGAGGGCTGGCTGCTGGAAGAAGGAAGAAGCCAGACTGGTTAGACAGTACTCTTAAC
TCCTAGCCCAGCCTAGCGTGCCCTGCCCCCTCTGGCCACTGCTGCAGACACCTGCCTTAACACACACACCTCTAGG
ACTCCACAGTTTTGCCTTAAAGGACCTTCCCAAGTCTCCCTTTCCCTGTCTGGCTTCTCCCTTAAAGAAGAGAGAG
ATACTTGTAGAATTGGGTGGGGGGAATGAGCATGAACTGTCCTTCCATTGGGATATGTTACGTTAGAGTGAGAG
AGAGAATAAGGAGCCTTTCTTATGGAAGAAATGGGAGAAGAGAGACAGGGTTCTTTTACAGCAGAGTCTAGTAGTT
TCTCTGTAAGGCAAAATAATCTAAAAAGACTAACCTGCCCACCCACTCCTTATATTGCTGTGAGATTGCCCTAT
CTTGTGCTCTTCTGTCTGCAGTGTGCACGGCCTTGTCTAACCCGGAATAAAGGTGATTGATTGTATTGCAAAAA
AAAAAAAAAAAA

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FIGURE 117

MAEYGTLLQDLTNNITLEDLEQLKSACKEDIPSEKSEEITTGSAWFSFLESHNKLDKDNLSYIEHIFEISRRPDL
LTMVVDYRTRVLKISEEDELDTKLTRIPSAKKYKDIIRQPSEEEI IKLAPPPKKA

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FIGURE 118

CATCTTTGTCAGTGCACAAAATGGCGCCCTACAGCCTACTGGTGACTCGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAACATTGTTGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCAGATGGCCATGCTCCAGTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTACACAGATTATTCTGGAAAACATATGCGTACCCTGGTGTCTTCTGATTGGCACTGACTCCC
ACACCCCCAATGGTGGCGGCCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCTAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGTGCAATCGTGAATACCACG
GGCCTGGTGTAGACTCCATCTCCTGCATGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGGAAGACATTGCCAATCTAG
CTGATGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTACCCCTGACCTGGCTCACCCCTGTGGCAGAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCAGTTTACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGAACACAATCG
TCACCTCCTACAACAGGAACCTTACGGGCCGCAACGACGCAAACCCGAGACCCATGCCTTTGTACGTCCCCAG
AGATTGTCACAGCCCTGGCCATTGCGGGAACCCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCCCTGGCTCAAGTTCCGTGGGCACCTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGGCCGGGCCATCATCACCAAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATT
ACCCTGTGGACAAGCTGACCATTGAGGGCCTGAAGGACTTACCCCTGGCAAGCCCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAACTGCAACAGTGAGGGCAGTGCCCTCCCCGCCGCGCTGGCGTCAAGTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAACCC

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FIGURE 119

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAEIGATTSVFPYN
HRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLE
APDADELPGGEFDPGQDQTYQHPPKDSSGQHVDVSPTSQRLQLEPFDPKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTOEFGVPVDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

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FIGURE 120

CTCCGAACAGGAAGAGGACGAAAAAATAACCGTCCGCGACGCCGAGACAAACCGGACCCGCAACCACCATGAAC
AGCAAAGGTCAATATCCAACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACCCTCAGACCTTG
CATCTTCCTCAGGCTCCACCCTATACCGATGCTCCACCTGCCTACTCAGAGCTCTATCGTCCGAGCTTTGTGCAC
CCAGGGGCTGCCACAGTCCCCACCATGTCAGCCGCATTTCTGGAGCCTCTCTGTATCTTCCCATGGCCCAGTCT
GTGGCTGTTGGGCCCTTTAGGTTCCACAATCCCCATGGCTTATTATCCAGTCGGTCCCATCTATCCACCTGGCTCC
ACAGTGCTGGTGGAAGGAGGGTATGATGCAGGTGCCAGATTTGGAGCTGGGGCTACTGCTGGCAACATTCTCTCT
CCACCTCCTGGATGCCCTCCCAATGCTGCTCAGCTTGAGTCATGCAGGGAGCCAACGTCCTCGTAACTCAGCGG
AAGGGGAACCTTCTTCATGGGTGGTTCAGATGGTGGCTACACCATCTGGTTGAGAACCAAGGCCACCTCTGTGCCG
GGAAAGACATCACATACCTTCAGCACTTCTCACAATGTAAGTCTTTAGTCATATTAACCTGAAGTTGCAGTTTA
GACACATGTTGTTGGGGTGTCTTTCTGGTGCCCAAACCTTTCAGGCACCTTTCAAATTTAATAAGGAACCATGTAA
TGGTAGCAGTACCTCCCTAAAGCATTTTGGAGGTAGGGGAGGTATCCATTCAAAAATGAATGTGGGTGAAGCCGC
CCTAAGGATTTTCTTTAATTTCTCTGGAGTAATACTGTACCATACTGGTCTTTGCTTTTAGTAATAAAACATCA
AATTAGGTTTGGAGGGAACTTTGATCTTCCTAAGAATTAAGTTGCCAAATTATTCTGATTGGTCTTTAATCTCC
TTTAAGTCTTTGATATATATTACTTGTTATAAATGGAACGCATTAGTTGTCTGCCTTTTCTTTCCATCCCTTGC
CCCACCCATCCCATCTCCAACCCTAGTCTTCCATTTCTCTCCCGCCAGTCTCCATTGAATCAATGGTGCAGGACAG
AAAGCCAGTCAGACTAATTTCTTCTTTCTCGCACTTCTCCCCACTCGTCATCTTTTAACTAGTGTTCACAAG
GATCCTCTGAAACCTCTCTGTGCCCAAGTACAGATGCCATTACTTCTGCTTTTCGTATCTCCTCAGGCAAAAGT
GGAGGGTGCCCTTATGGGCCCTCCTCATAGGTTGTCTCTGCATACACGAACCTAACCCAAATTTGCTTTGGTGCCA
GAAAAACTGAGCTATGTTTGAACAAAGATGTCGTGCAAACTGTACTGTGAACAACAGTTGGTTTTAAATATGAGG
GGCAAGGAGGAGGATGCATTTCAAAGCTTGATTGATGTGTTTCAGAGCTAAATTAAGAGGAGTTTTTCAGATCAAA
AACTGGTTACCATTTTTTGTGAGAGTGTCTGATGCGGCCACTCATTTCGGCTCCCCAGAATTCCTAGACTGGGTTA
ATAGGGTCATATTGTGAATGTCTCACTACAAAATGACTTGAGTCCAGTGAAATCTCATTAGGGTTTAAGAATATT
TCAGGGATCCTTAATGTTTTGATTTTTGTTTTCTGAAATTGGATTTTATTTTATTTTATCTTATAATTTAGTTC
ATCTAAATTGTGTGTTCTGTACATGTGATGTTTGACTGTACCATTGACTGTTATGGAAGTTCAGCGTTGTATGTC
TCTCTCTACACTGTGGTGCACCTTAACCTGTGGAATTTTTTATACTAAAAATGTAGAATAAAGACTATTTTGAAGAT
TTGAATAAAGTGATGAAGTTGC

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FIGURE 121

MNSKGQYPTQPTYPVQPPGNEVPQTLHLPQAPPYTDAPPAYSELYRPSFVHPGAATVPTMSAAFP GASLYLPMA
QSVAVGPLGSTIPMAYYPVGPIYPPGSTVLVEGGYDAGARFGAGATAGNIPPPPGCPPNAAQLAVMQGANVLVT
QRKGNFFMGGSDGGYTIW

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FIGURE 122A

GGCACGAGGAAGGAGTCGGGGTCTTCCCCAGTTTTCTCAGCCAGGCGGCGGCGGCGACTGGCAATGTTTGGCCTC
AAAAGAAACGCGGTAATCGGACTCAACCTCTACTGTGGGGGGGCCGGCTTGGGGGCCGGCAGCGGCGGCGCCACC
CGCCCCGGGAGGGCGACTTTTGGCTACGGAGAAGGAGGCCCTCGGCCCGGCGAGAGATAGGGGGAGGGGAGGCCGGC
GCGGTGATTGGCGGAAGCGCCGGCGCAAGCCCCCGTCCACCCTCACGCCAGACTCCCGGAGGGTTCGCGCGGCCG
CCGCCCATTGGCGCCGAGGTCCCCGACGTCACCGCGACCCCCGCGAGGCTGCTTTTCTTCGCGCCCACCCGCCGC
GCGGCGCCGCTTGAGGAGATGGAAGCCCCGGCCGCTGACGCCATCATGTGCCCCGAAGAGGAGCTGGACGGGTAC
GAGCCGGAGCCTCTCGGGAAGCGGCCGGCTGTCTGCGCTGCTGGAGTTGGTCGGGAATCTGGTAATAACACC
AGTACGGACGGGTCACTACCCTCGACGCCGCCGCGCAGCAGAGGAGGAGGAGGACGAGTTGTACCGGCAGTCGCTG
GAGATTATCTCTCGGTACCTTCGGGAGCAGGCCACCGGCGCCAAGGACACAAAGCCAATGGGCAGGTCTGGGGCC
ACCAGCAGGAAGGCGCTGGAGACCTTACGACGGGTGGGGATGGCGTGCAGCGCAACCACGAGACGGCCTTCCAA
GGCATGCTTCGGAACTGGACATCAAAAACGAAGACGATGTGAAATCGTTGTCTCGAGTGATGATCCATGTTTTTC
AGCGACGGCGTAACAACTGGGGCAGGATTGTGACTCTCATTTCTTTTGGTGCCTTTGTGGCTAAACACTTGAAG
ACCATAAACCAAGAAAGCTGCATCGAACCATTAGCAGAAAGTATCACAGACGTTCTCGTAAGGACAAAACGGGAC
TGGCTAGTTAAACAAAGAGGCTGGGATGGGTTTGTGGAGTTCTTCCATGTAGAGGACCTAGAAGGTGGCATCAGG
AATGTGCTGCTGGCTTTTGCAGGTGTTGCTGGAGTAGGAGCTGGTTTGGCATATCTAATAAGATAGCCTTACTGT
AAGTGCATAGTTGACTTTTAACCAACCACCACCACCACCAAAACCAGTTTATGCAGTTGGACTCCAAGCTGTAA
CTTCCTAGAGTTGCACCCTAGCAACCTAGCCAGAAAAGCAAGTGGCAAGAGGATTATGGCTAAACAAGAATAATA
CATGGGAAGAGTGCTCCCCATTGATTGAAGAGTCACTGTCTGAAAGAAGCAAAGTTCAGTTTTAGCAACAAACAA
ACTTTGTTTGGGAAGCTATGGAGGAGGACTTTTATGATTTAGTGAAGATGGTAGGGTGGAAAGACTTAATTTCTTT
GTTGAGAACAGGAAGTGGCCAGTAGCCAGGCAAGTCATAGAATTGATTACCCGCCGAATTCATTAATTTACTGT
AGTGTTAAGAGAAGCACTAAGAATGCCAGTGACCTGTGTAAAAGTTACAAGTAATAGAAGTATGACTGTAAGCCT
CAGTACTGTACAAGGGAAGCTTTTCTCTCTCTAATTAGCTTTCCAGTATACCTTCTTAGAAAGTCCAAGTGTTT
AGGACTTTTATACCTGTTATACTTTGGCTTGGTTTCCATGATTCTTACTTTATTAGCCTAGTTTATCACCATAA
TACTTGACGGAAGGCTCAGTAATTAGTTATGAATATGGATATCCTCAATTCTTAAGACAGCTTGTAATGTATTT
GTAAAAATTGTATATATTTTTTACAGAAAGTCTATTTCTTTGAAACGAAGGAAGTATCGAATTTACATTAGTTTTT
TTCATACCCTTTTGAACCTTTGCAACTTCCGTAATTAGGAACCTGTTTCTTACAGCTTTTCTATGCTAAACTTTGT
TCTGTTCAGTTCTAGAGTGTATACAGAACGAATTGATGTGTAAGTGTATGCAGACTGGTTGTAGTGGAACAAATC
TGATAACTATGCAGGTTTAAATTTTCTTATCTGATTTTGGTAAGTATTCCTTAGATAGGTTTTTCTTTGAAAACC
TGGGATTGAGAGGTTGATGAATGGAAATTCCTTCACTTCATTATATGCAAGTTTTCAATAATTAGGTCTAAGTGG
AGTTTTAAGGTTACTGATGACTTACAAATAATGGGCTCTGATTGGGCAATACTCATTGAGTTTCTTCCATTGTA
CCTAATTTAAGTGGTGAATTTAAAGTGAATTCATGGGCTCATCTTTAAAGCTTTTACTAAAAGATTTTCTAGCTG
AATGGAATCATTAGCTGTGTGCATATAAAAAGATCACATCAGGTGGATGGAGAGACATTTGATCCCTTGTTTGC
TTAATAAATTATAAAATGATGGCTTGGAAAAGCAGGCTAGTCTAACCATGGTGCTATTATTAGGCTTGCTTGTTA
CACACACAGGCTAAGCCTAGTATGTCAATAAAGCAAATACTTACTGTTTTGTTTCTATTAATGATTCCCAAACC
TTGTTGCAAGTTTTTGCATTGGCATCTTTGGATTTAGTCTTGATGTTTGTCTATCAGACTTAACCTTTTATTT
CCTGTCTTCTTGAATTTGCTGATTGTTCTGCTCCCTCTACAGATATTTATATCAATTCCTACAGCTTTCCCTT
GCCATCCCTGAACCTTTTCTAGCCCTTTTATGATTTTGGCACGTGTGAAACCCCTGCTGGAAACCTGAGTGACCCTC
CCTCCCCACCAAGAGTCCACAGACCTTTTCACTTTTACGAACTTGATCCTGTTAGCAGGTGGTAATACCATGGGT
GCTGTGACACTAACAGTCATTGAGAGGTGGGAGGAAGTCCCTTTTCTTGGACTGGTATCTTTTCAACTATTGTT
TTATCCTGTCTTTGGGGCAATGTGTCAAAAAGTCCCTCAGGAATTTTTCAGAGGAAAGAACATTTTATGAGGCTT
TCTCTAAAGTTTCTTTGTATAGGAGTATGCTCACTTAAATTTACAGAAAGAGGTGAGCTGTGTTAAACCTCAGA
GTTTAAAGCTACTGATAAAGTGAAGAAAGTGTCTATATTGGAAGTGGGTGATTTGAAAGCTTCAGTCTCGGAA
CATGACCTTTAGTCTGTGGACTCCATTTAAAAATAGGTATGAATAAGATGACTAAGAATGTAATGGGGAAGAAGT
GCCCTGCCTGCCATCTCAGAGCCATAAGGTCATCTTTGCTAGAGCTATTTTTACCTATGTATTTATCGTCTCTG
ATCATAAGCCGCTTATTTATATCATGTATCTCTAAGGACCTAAAAGCACTTTATGTAGTTTTTAATTAATCTTAA
GATCTGGTTACGGTAACTAAAAAGCCTGTCTGCCAAATCCAGTGGAACAAGTGCATAGATGTGAATTGGTTTTT
TAGGGGCCCCACTTCCCAATTCATTAGGTATGACTGTGGAATACAGACAAGGATCTTAGTTGATATTTTGGGCT
TGGGGCAGTGAGGGCTTAGGACACCCCAAGTGGTTTGGGAAAGGAGGAGGGGAGTGGTGGGTTTATAGGGGGAGG

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FIGURE 122B

AGGAGGCAGGTGGTCTAAGTGCTGACTGGCTACGTAGTTTGGGCAAATCCTCCAAAAGGGAAAAGGGAGGATTTC
TTAGAAGGATGGCGCTCCCAGTGACTACTTTTTGACTTCTGTTTGTCTTACGCTTCTCTCAGGGAAAAACATGCA
GTCCTCTAGTGTTTCATGTACATTCTGTGGGGGGTGAACACCTTGTTTCTGGTTAAACAGCTGTACTTTTGATAG
CTGTGCCAGGAAGGGTTAGGACCAACTACAAATTAATGTTGGTTGTCAAATGTAGTGTGTTCCCTAACTTTCTG
TTTTTCCTGAGAAAAAAAAATAAATCTTTTATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 123

MFGLKRNAVIGLNLYCGGAGLGAGSGGATRPGGRLATEKEASARREIGGGEAGAVIGGSAGASPPSTLTTPDSRR
VARPPPIGAEVDPVTATPARLLFFAPTRRAAPLEEMEAPAADAISPEEEELDGYEPEPLGKRPAVLPLLELVGES
GNNTSTDGSLPSTPPPAEEEEDELYRQSLEIISRYLREQATGAKDTKPMGRSGATSRKALETLLRRVGDGVQRNHE
TAFQGMLRKLDIKNEDDVKSLSRVMIHVFSDGVTNWGRIVTLISFGAFVAKHLKTINQESCIEPLAESITDVLVR
TKRDWLVKQRGWDGFVEFFHVEDLEGGIRNVLLAFAGVAGVGAGLAYLIR

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FIGURE 124

CACGCTTGCCGCCGCCCGCCCGCAGAAATGCTTTCGGTTACCCACAGTCTTTCGCCAGATGAGACCGGTGTCCAGGGTA
CTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAAATTTGGTGCAGATGCCCCGAGCCTTAATGCTTCAA
GGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTGATTATTGAGCAGGGT
TGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTAAAAGATAAATACAAGAAC
ATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACT
GTACTGGCACGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGTGCTAATCCAGTGGAATCAGGAGA
GGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACCTTAAAAAGCAGTCTAAACCTGTGACCACCCCTGAAGAA
ATTGCACAGGTTGCTACGATTTCTGCAAACGGAGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAAA
GTTGGAAGAAAGGGTGTCATCACAGTAAAGGATGGAAAAACACTGAATGATGAATTAGAAATTATTGAAGGCATG
AAGTTTGATCGAGGCTATATTTCTCCATACTTTATTAATACATCAAAAGGTCAGAAATGTGAATTCAGGATGCC
TATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCAC
CGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCTAAGTACACTCGTCTTGAAATAGGCTAAAG
GTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAATAGAAAGAACCAGCTTAAAGATATGGCT
ATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGATTGACCCCTGAATCTTGAAGACGTTACGCCTCATGACTTA
GGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTTAAAAGGAAAAGGTGACAAGGCTCAAATT
GAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAAACTGAATGAA
CGGCTTGCAAAAATTTAGATGGAGTGGCTGTGCTGAAGGTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAG
AAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGCATTGTTTTGGGAGGGGGTTGT
GCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAATGAAGATCAAAAAATTTGGTATAGAAATT
ATTAAGAAGAACTCAAAATTCAGCAATGACCATTGCTAAGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAG
AAAATTATGCAAAGTTCCTCAGAAGTTGGTTATGATGCTATGGCTGGAGATTTTGTGAATATGGTGGAAAAAGGA
ATCATTGACCCAACAAAGGTTGTGAGAAGTCTTTATTGGATGCTGCTGGTGTGGCCTCTCTGTTAACTACAGCA
GAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCCTGGAATGGGTGCAATGGGTGGAATGGGAGGTGGT
ATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAAGTGTGACAGGAAGCCCAAGGC
AGTGTTCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAAGAAAAGGCTGGCTGAAAATCACTATAA
CCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCTACAGATAATTT
ATTTTGATTTTTGAATAAAAAACATTTGTACATTCTGATACTGGGTACAAGAGCCATGTACCAGTGTAAGTCT
TTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTTAAATCAGGATTTTAGTGCTTGCCACCACCAGAT
GAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAGAGAAGTATCCAATTATGTGACA
ACCTTTGTGTAATAAAAAATTTGTTTAA

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FIGURE 125

MLRLPTVFRQMRPVSRVLAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIEQGWGSPKVTK
DGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGTTTATVLARSLAKEGFEEKISKGANPVEIRRGVMLAVDA
VIAELKKQSKPVTTPEEIAQVATISANGDKEIGNIISDAMKKVGRKGVITVKDGKTLNDELEIEGKMFDRGYIS
PYFINTSKGQKCEFQDAYVLLSEKKISSIQSIVPALEIANAHRKPLVIAEDVDGEALSTLVNRLKVGLQVVAV
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNLEDVQPHDLGKVGEVIVTKDDAMLLKGKGDKAQIEKRIQEII
EQLDVTTSEYEKEKLNERLAKLSGVAVLKVGGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPA
LDSLTPANEDQKIGIEIIKRTLKIPAMTIAKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTKVV
RTALLDAAGVASLLTTAEVVVTEIPKEEKDPGMGAMGGMGGGMGGGMF

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FIGURE 126

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGCGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGCGCCTCAA
CCTCCTCTTCCTGCTGTCCAGAACCAGGTGGCTGAGTTCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGGCCCCAACAACTACTACAGTTTGGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 127

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLLLELNFLPTTGTKLTKQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 128A

GTGGTGTCTGGTGTCTGGCAGCATCCCCGGCGCCCTGCTGCGGTGCGCGGAGCCCTCGGCCTCTGTTCTCCTCCCC
TCCCCGCCCTTACCTCCACGCGGGACCGCCGCGCCAGTCAACTCCTCGCACTTTGCCCCCTGCTTGGCAGCGGATA
AAAGGGGGCTGAGGAAATACCGGACACGTCCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGCTCGGGACCTC
CACGCACCGGGCTAGCGCCGACAACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGGCGGGCTTCGAA
ACCGCAGTCTCTCGGCGACCCGAACCTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCGGAGAG
CCAAGATGCGCGGCCACTTGCTGTCAGGACGATATCTCTAGCTCCTATACCACCACCACCATTACAGCGCCTC
CCTCCAGGGTCTGTCAGAAATGGAGGAGATAAGTTGGAGACGATGCCCCCTCTACTTGGAAGACGACATTCGCCCTG
ATATAAAAGATGATATATATGACCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGA
GAAACATCATCCTTATGTCTCTGCTACACTTTGGGAGCCCTGTATGGGATCACTTTGATTCTTACCTGCAAGTTCT
ACACCTGGCTTTGGGGGGTATTCTACTATTTTGTGAGTGCCCTGGGCATAACAGCAGGAGCTCATCGTCTGTGGA
GCCACCGCTCTTACAAAGCTCGGCTGCCCTACGGCTCTTTCTGATCATTTGCCAACACAATGGCATTCCAGAATG
ATGTCTATGAATGGGCTCGTGACCACCGTGCCACCAACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCC
GACGTGGCTTTTTCTTCTCTCACGTGGGTTGGCTGCTTGTGCGCAACACCCAGCTGTCAAAGAGAAGGGGAGTA
CGCTAGACTTGTCTGACCTAGAAGCTGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTTGTCTGC
TGATGTGCTTCATCCTGCCACGCTTGTGCCCTGGTATTTCTGGGGTGAAACTTTTTCAAACAGTGTGTTCTGTTG
CCACTTTCTTGCGATATGCTGTGGTGCTTAATGCCACCTGGCTGGTGAACAGTGCTGCCACCTCTTCGGATATC
GTCCTTATGACAAGAACATTAGCCCCGGGAGAATATCCTGGTTTCACTTGGAGCTGTGGGTGAGGGCTTCCACA
ACTACCACCACTCCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCA
TTGATTGCATGGCCGCCCTCGGTCTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCCATCTTGGCCAGGATTA
AAAGAACC GGAGATGGAACACTACAAGAGTGGCTGAGTTTTGGGGTCCCTCAGGTTCTTTTTTCAAACAGCCAG
GCAGAGGTTTTAATGTCTGTTTATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTAACCCAT
TCCAGTACAGTATTCTTTTTAAATTCAAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAAGCTGATAT
TATTTCTTCTTATCCTCTCTCTTCTAGGCCCATGTCTCTCTTTTCACTTTAATCGCCCTCCTTTCCCTTA
TTGCCTCCAGGCAAGCAGCTGGTCACTCTTTGCTCAGTGCTCCAGCTTCCAAAGCCTAGACAACCTTTCTGTAGC
CTAAACGAATGGTCTTTGCTCCAGATAACTCTCTTCTTCTGAGCTGTTGTGAGCTTTGAAGTAGGTGGCTTGAG
CTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCTGTTGATTATCTTCAGCCCAGGCTTTTGCTAGATGGAATGG
AAAAGCAACTTCATTTGACACAAAGCTTCTAAAGCXAGGTAAATTGTGCGGGGAGAGAGTTAGCATGTATGAATG
TAAGGATGAGGGAAGCGAAGGAACCTCTCGCCATGATCAGACATACAGCTGCCTACCTAATGAGGACTTCAAGCC
CCACCACATAGCATGCTTCTTTCTCTCTGCTCGGGGTAAAAAGTGGCTGCGGTGTTTGGCAATGCTAATTCA
ATGCCGCAACATATAGTTGAGGCCGAGGATAAAGAAAAGACATTTTAAGTTTGTAGTAAAAGTGGTCTCTGCTGG
GGAAGGGTTTTCTTTCTTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTATATATCAAGAAGTCTTGAAGTT
GGGTGTTTCCAGAAATGGTAAAAACAGCAGCTCATAGAATTTTGAGTATTCCATGAGCTGCTCATTACAGTTCTT
TCCTCTTTCTGCTCTGCCATCTTCAGGATATTGGTTCTTCCCTCATAGTAATAAGATGGCTGTGGCATTTCCAA
ACATCCAAAAAAGGGAAGGATTTAAGGAGGTGAAGTCGGGTCAAAAATAAAATATATATACATATATACATTGC
TTAGAACGTTAAACTATTAGAGTATTTCCCTTCCAAAGAGGGATGTTTGGAAGAACTCTGAAGGAGAGGAGGAA
TTAGTTGGGATGCCAATTTCTCTCCACTGCTGGACATGAGATGGAGAGGCTGAGGGACAGGATCTATAGGCAGC
TTCTAAGAGCGAACTTCACATAGGAAGGGATCTGAGAACACGTTTCAGGGGTTGAGAAGGTTACTGAGTGAGTTAT
TGGGAGTCTTAATAAACTAGATATTAGGTCCATTCAATTAAGTTTCCAGTTTCTCCTTGAAATGAGTAAAAACT
AGAAGGCTTCTCTCCACAGTGTTGTGCCCTTCACTCATTTTTTTTTTGAGGAGAAGGGGGTCTCTGTAAACATCT
AGCCTAAAGTATACAAACTGCCTGGGGGGCAGGGTTAGGAATCTCTTCACTACCCTGATTCTTGATTCTTGGCTC
TACCCTGTCTGTCCCTTTTTCTTTGACCAGATCTTTCTCTTCCCTGAACGTTTTCTTTCTTTCCCTGGACAGGCAGC
CTCCTTTGTGTGATTTCAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCCTCCTGCACACAGAATGCTCAGGG
TCACTGAACCACTGCTTCTCTTTTGAAAGTAGAGCTAGCTGCCACTTTCACGTGGCCTCCGCAGTGCTCCACCT
ACACCCCTGTGCTCCCTGCCACACTGATGGCTCAAGACAAGGCTGGCAAACCCTCCAGAAACATCTCTGGCCC
AGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGAAGCCAAGCGCTCATGTTGAGCCAGTGGGCCAGCCACAGAGC
AAAAGAGGGTTTATTTTTCAGTCCCTCTCTCTGGGTGAGAACCAGAGGGCATGCTGAATGCCCCCTGCTTACTTG
GTGAGGGTGCCCCGCCTGAGTCAGTGCTCTCAGCTGGCAGTGCAATGCTTGTAGAAGTAGGAGGAAACAGTTCTC
ACTGGGAAGAAGCAAGGGCAAGAACCCTAAGTGCTCACCTCGAAAGGAGGCCCTGTTCCCTGGAGTCAGGGTGAA

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FIGURE 128B

CTGCAAAGCTTTGGCTGAGACCTGGGATTTGAGATACCACAAACCCTGCTGAACACAGTGTCTGTTTCAGCAAAC
AACCAGCATTCCCTACAGCCTAGGGCAGACAATAGTATAGAAGTCTGGAAAAAACAAAAACAGAATTTGAGAAC
CTTGGAACCTCCTGTCCCTGTAGCTCAGTCATCAAAGCAGAAGTCTGGCTTTGCTCTATTAAGATTGGAAATGT
ACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGTGGAAGGGAGGAAGGCCTTTCTTCTGTGTTAATTGC
GTAGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTCTTTGAGCTATTACCTCAGTAGAAAAGGATCT
AAGGGAAGATCACTGTAGTTTAGTTCTGTTGACCTGTGCACTACCCCTTGGAATGTCTGCTGGTATTTCTAAT
TCCACAGGTCATCAGATGCCTGCTTGATAATATATAAACAATAAAAACACTTTCACTTCTTCCTATTGTAATCG
TGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTGGATGGCACCTCAGGCTGAGGGCCCCAATGTAT
GTGTGGCTGTGGGTGTGGGTGGGAGTGTGTCTGCTGAGTAAGGAACACGATTTTCAAGATTCTAAAGCTCAATTC
AAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCCGGATTTCTAACAGTCCTTGCTTTGGGGGGTGTG
CTGGCAACTTAGCTCAGGTGCCTTACATCTTTTCTAATCACAGTGTGTCATATGAGCCTGCCCTCACTCCCTCTG
CAGAATCCCTTTGCACCTGAGACCCTACTGAAGTGGCTGGTAGAAAAAGGGGCCTGAGTGGAGGATTATCAGTAT
CACGATTTGCAGGATTCCCTTCTGGGCTTCATTCTGGAACCTTTTGTAGGGCTGCTTTTCTTAAGTGCCACAT
TTGATGGAGGGTGGAAATAATTTGAATGTATTTGATTTATAAGTTTTTTTTTTTTTTTTTTGGGTAAAAGATGGTTG
TAGCATTTAAAAATGGAAAATTTTCTCCTTGGTTTGCTAGTATCTTGGGTGTATTCTCTGTAAGTGTAGCTCAAAT
AGGTCATCATGAAAGGTTAAAAAAGCGAGGTGGCCATGTTATGCTGGTGGTTGCCAGGGCCTCCAACCACTGTGC
CACTGACTTGCTGTGTGACCCTGGGCAAGTCACTTAACTATAAGGTGCCTCAGTTTTCTTCTGTTAAAAATGGGG
ATAATAATACTGACCTACCTCAAAGGGCAGTTTTGAGGCATGACTAATGCTTTTTTAGAAAGCATTTTGGGATCCT
TCAGCACAGGAATTCTCAAGACCTGAGTATTTTTTATAATAGGAATGTCCACCATGAACCTTGATACGTCCTGTG
TCCCAGATGCTGTCATTAGTCTATATGGTTCTCCAAGAACTGAATGAATCCATTGGAGAAGCGGTGGATAACTA
GCCAGACAAAATTTGAGAATACATAAACAACGCATTGCCACGGAAACATACAGAGGATGCCTTTTCTGTGATTGG
GTGGGATTTTTTCCCTTTTTATGTGGGATATAGTAGTTACTTGTGACAAGAATAATTTTGAATAATTTCTATTA
ATATCAACTCTGAAGCTAATTGTACTAATCTGAGATTGTGTTTGTTCATAATAAAAGTGAAGTGAATCTGATTGC
ACTG

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FIGURE 129

MPAHLQDDISSSYTTTTTITAPPSRVLQNGGDKLETMPLYLEDDIRPDIKDDIYDPTYKDKEGPSKVEYVWRN
IILMSLLHLGALYGITLIPTCKFYTWLWGVFYYFVSALGITAGAHRLWSHRSYKARLPLRLFLIIANTMAFQNDV
YEWARDHRAHHKFSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGSTLDLSDLEAEKLVMFQRRYYKPGLLLM
CFILPTLVPWYFWGETFQNSVFVATFLRYAVVLNATWLVNSAAHLFGYRPHYDKNISPRENILVSLGAVGEGFHN
HHSFPYDYSASEYRWHINFTTFFIDCMAALGLAYDRKKVSKAAILARIKRTGDGNYKSG

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FIGURE 130

TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTCGGTTGCTGCGGCGGGGCCTGCACGT
TGACTGTGGGAACTCGGAAACAAGCTCACATCTTCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTTCCTTGCTGCTGTCCTTCCTGCTTAGACGCCTGGTGACTCTCAITTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAAAGC
TGAAAACAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAAGGGCCTCCTTCTCCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCIGCTGCTTCCTGAGAGCCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGCTCCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGATGCGTTTGCTGTTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAGCCCCCTTTTGTGTTTGGCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTTCATGGTGG

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FIGURE 131

MSLQWTAVATFLYAEVFVVL L L C I P F I S P K R W Q K I F K S R L V E L L V S Y G N T F F V V L I V I L V L L V I D A V R E I R K Y D D
V T E K V N L Q N N P G A M E H F H M K L F R A Q R N L Y I A G F S L L L S F L L R R L V T L I S Q Q A T L L A S N E A F K K Q A E S A S E A A K K Y
M E E N D Q L K K G A A V D G G K L D V G N A E V K L E E E N R S L K A D L Q K L K D E L A S T K Q K L E K A E N Q V L A M R K Q S E G L T K E Y D R
L L E E H A K L Q A A V D G P M D K K E E

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FIGURE 132

TCCGGCAACGCCAACCGCTCCGCTGCGCGCAGGCTGGGCTGCAGGCTCTCGGCTGCAGCGCTGGGCTGGTGTGCA
GTGGTGCAGCCACGGCTCACGGCAGCCTCAGCCACCCAGATGTAAGCGATCTGGTTCCACCTCAGCCTCCCGAG
TAGTGGATCTAGGATCCGGCTTCCAAC**ATG**TGGCAGCTCTGGGCCTCCCTCTGCTGCCTGCTGGTGTGGCCAAT
GCCCCGAGCAGGCCCTCTTTCCATCCCCTGTCGGATGAGCTGGTCAACTATGTCAACAAACGGAATACCACGTGG
CAGGCCGGGCACAACCTTCTACAACGTGGACATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCC
AAGCCACCCAGAGAGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCCA
CAGTGTCCACCATCAAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGCCTTCGGGGCTGTGGAAGCC
ATCTCTGACCGGATCTGCATCCACACCAATGCGCACGTCAGCGTGGAGGTGTCGGCGGAGGACCTGCTCACATGC
TGTGGCAGCATGTGTGGGGACGGCTGTAATGGTGGCTATCCTGCTGAAGCTTGGAACCTCTGGACAAGAAAAGGC
CTGGTTTCTGGTGGCCTCTATGAATCCCATGTAGGGTGCAGACCGTACTCCATCCCTCCCTGTGAGCACCACGTC
AACGGCTCCCGGCCCCCATGCACGGGGGAGGGAGATACCCCCAAGTGTAGCAAGATCTGTGAGCCTGGCTACAGC
CCGACCTACAAACAGGACAAGCACTACGGATACAATTCTACAGCGTCTCCAATAGCGAGAAGGACATCATGGCC
GAGATCTACAAAAACGGCCCCGTGGAGGGAGCTTTCTCTGTGTATTTCGGACTTCCTGCTCTACAAGTCAGGAGTG
TACCAACACGTCACCGGAGAGAGATGATGGGTGGCCATGCCATCCGCATCCTGGGCTGGGGAGTGGAGAATGGCACA
CCCTACTGGCTGGTTGCCAACTCCTGGAACACTGACTGGGGTGACAATGGCTTCTTTAAAATACTCAGAGGACAG
GATCACTGTGGAATCGAATCAGAAGTGGTGGCTGGAATTCCACGCACCGATCAGTACTGGGAAAAGATCT**TAAT**CT
GCCGTGGGCCTGTCGTGCCAGTCCTGGGGGCGAGATCGGGGTAGAAATGCATTTTATTCTTTAAGTTCACGTAAG
ATACAAGTTTCAGGCAGGGTCTGAAGGACTGGATTGGCCAAACATCAGACCTGTCTTCCAAGGAGACCAAGTCCT
GGCTACATCCCAGCCTGTGGTTACAGTGCAGACAGGCCATGTGAGCCACCGCTGCCAGCACAGAGCGTCCTTCCC
CCTGTAGACTAGTGCCGTGGGAGTACCTGCTGCCCAGCTGCTGTGGCCCCCTCCGTGATCCATCCATCTCCAGGG
AGCAAGACAGAGACGCAGGATGGAAAGCGGAGTTCTTAACAGGATGAAAGTTCCCCCATCAGTTCCCCCAGTACC
TCCAAGCAAGTAGCTTTCCACATTTGTACAGAAATCAGAGGAGAGATGGTGTGGGAGCCCTTTGGAGAACGCC
AGTCTCCAGGTCCCCCTGCATCTATCGAGTTTGCAATGTCACAACCTCTCTGATCTTGTGCTCAGCATGATTCTT
TAATAGAAGTTTTATTTTTCTGTCACCTCTGCTAATCATGTGGGTGAGCCAGTGAACAGCGGGAGCCTGTGCTGG
TTTGCAGATTGCCTCCTAATGACGCGGCTCAAAAGGAAACCAAGTGGTCAGGAGTTGTTTCTGACCCACTGATCT
CTACTACCACAAGGAAAATAGTTTAGGAGAAACCAGCTTTTACTGTTTTTGAAAAATTACAGCTTCACCTGTCA
AGTTAACAAGGAATGCCTGTGCCAATAAAAGGTTTCTCCAACCTGA

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FIGURE 133

MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYLRKLCGTFLGGPKPPQRMFT
EDLKLPASFDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDRICHTNAHVSVEVSAEDLLTCCGSMCGDGC
NGGYPAEAWNFWTRKGLVSGGLYESHVGC RPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHY
GYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGHAI RILGWGVENGTPYWL VANSW
NTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

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FIGURE 134A

TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCTTTACTTCTACAATTAATGAACCTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCCCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT
TCTTGAAGCCCAGCAGGCCCTTCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAACCTATAATGAA
GTATGCAGAGAAGCTAATTCAAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGAATCTAAACATAGAAAAACCCATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAAA
AGGGAGCCAGTTTGGTCACTCCTGTTGTTTGGCAGCAAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCCCTTTATCGCTGCAAAATTCAACCACATCCAAGAACTGGAAATAAATACAATGTTTATCCAACATATGA
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACCTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCTACGGTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTTATTGCTGCTCA
GGGCTCCTCACGTTTCAGTCGTGAACATGGAGTGGGACAAAACTGGGCGTTTTAACAAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAGAAAGTGATCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAAGTTTAATTTGGAAAACAAAGACTACAAGAA
AACCCTAAGGTCAGTTGGCTTGAGAGACTACACATGCTCTTCTTATCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAAGGAGATATTATACAACTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCCTTGGTCTCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTTCGTGAATTTAAAGCCAAGAAAGCACCAAAGGAAGATGTAGA
TGCAGCTGTAAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAACCTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGGCTAAAATAAATGAAGC
TGTAAGATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTCAGCCCCC
ATTATCTCAAAGTTCGGATTCAAGCCCAACCAGAAATTCGAACTGCTGGTTTAGAAACACCAGAAGCGAAAGT
ACTTTTTGACAAAGTAGCTTCTCAAGGGGAAGTAGTTCGGAACTTAAACTGAAAAAGCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAAGAAAAGAAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAAACAAAATGATGGCCAAAGGAAAGACCCCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCCCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAAGAAAGAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAACTGCTACTT
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAACCGAGCTGGCAGAACCAATGCCATTTCGTCTCTACTAGTGAAACAGTAATGTATCC
TGCATATGCAAAATGGGTACAATCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG
GGAATTCAGCATCTCAGCCTTTCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGACAGATACTTGACTTATATGCTCAGGTATATGAAGAATCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAAAGGAAAAATTTGCAGGAGGAGACTATACAATAACAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTTCCAAAATGTTTGA

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FIGURE 134B

AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGAAGACATCCAGGTCACCCTTTTCAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTTTAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT
ATCATGAACTA

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FIGURE 135

MEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRITYLVGNSLSLADLCVWATLKGNAAWQEQLKQKKAPVHV
KRWFGFLEAQQAFQSVGKWDVSTTKARVAPEKKQDVGKFVELPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQ
HYQVNFKGKGLIMRFDDTNPEKEKEDFEKVILEDVAMLHIKPDQFTYTSDFETIMKYAEKLIQEGKAYVDDTPAE
QMKAEERQRIESKHKRKNPIEKNLQMWEEMKKGSQFGHSCCLRAKIDMSSNNGCMRDPTLYRCKIQPHPTGNKYN
VYPTYDFACPIVDSIEGVTHALRTTEYHDRDEQFYWIIIEALGIRKPYIWEYSRLNLNNTVLSKRKLTWTFVNEGLV
DGWDDPRFPPTVRGVLRRGMTVEGLKQFIAAQGSSRSVVMWEDKIWAFNKKVIDPVAPRYVALLKKEVIPVNVPE
AQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETFSEGEMVTFINWGNLNTKIHKKNADGKIIISLDAKFNLE
NKDYKKTTKVTWLAETTHALPIPVICVTYEHLITKPVLGKDEDFKQYVNKNSKHEELMLGDPCLKDLKKGDI IQL
QRRGFFICDQPYEPVSPYSCKEAPCVLIYIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNNNCTTS
EDSLVLYNRVAVQGDVVRELKAKKAPKEDVDAAVKQLLSLKAQYKEKTGQYKPGNPPAEIGQNISSNSSASILE
SKSLYDEVAAQGEVVRKLKAESPKAKINEAVECLLSLKAQYKEKTGKEYIPGQPPLSQSSDSSPTRNSEPAGLE
TPEAKVLFDKVASQGEVVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPVSAATGAEDKDKKKKEKENKS
EKQNKPKQNDGQRKDPKQGGGLSSSGAGEGQGPQKQTRLGLEAKKEENLADWYSQVITKSEMIEYHDISGCY
ILRPWAYAIWEAIKDFDAEIKKLGVENCYFPMFVSQSALEKEKTHVADFAPEVAVVTRSGKTELAEP IAIRPTS
ETVMYPAYAKWVQSHRDLPIKLNQWCNVVRWEFKHPQPFLLRTREFLWQEGHSAFATMEEAAEEVLQILDLYAQVY
EELLAIPVVKGRKTEKEKFAGGDYTTTIEAFISASGRAIQGGTSHHLGQNF SKMFEIVFEDPKIPGEKQFAYQNS
WGLTTRTIGVMTMVHGDNMGLVLPVRVACVQVVIIPCGITNALSEEDKEALIAKCNDYRRRLSVNIRVRADLRD
NYS PGWKFNHWELKGVP IRLVVGPRDMKSCQFVAVRRDTGEKLTVAENEAEKTLQAILEDIQVTLFTRASEDLKT
HMOVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTTARDQDLEPGAPSMGAKSLCIPFKPLCELQPGAKCVC
GKNPAKYTYTLFGRSY

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FIGURE 136

CGGTTGCTTGCTGTCCCAGCGGCGCCCCCTCATCACCGTCGCCATGCCCGGAGGTCTGCTTCTCGGGGACGTGGC
TCCCAACTTTGAGGCCAATACCACCGTCGGCCGCATCCGTTTCCACGACTTTCTGGGAGACTCATGGGGCATTCT
CTTCTCCACCCCTCGGGACTTTACCCAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAAGCTGGCACCAGAATT
TGCCAAGAGGAATGTTAAGTTGATTGCCCTTTCAATAGACAGTGTGAGGACCATCTTGCCTGGAGCAAGGATAT
CAATGCTTACAATTGTGAAGAGCCCACAGAAAAGTTACCTTTTCCCATCATCGATGATAGGAATCGGGAGCTTGC
CATCCTGTTGGGCATGCTGGATCCAGCAGAGAAGGATGAAAAGGGCATGCCTGTGACAGCTCGTGTGGTGTGTTGT
TTTTGGTCCTGATAAGAAGCTGAAGCTGTCTATCCTCTACCCAGCTACCACTGGCAGGAACCTTTGATGAGATTCT
CAGGGTAGTCATCTCTCTCCAGCTGACAGCAGAAAAAAGGGTTGCCACCCAGTTGATTGGAAGGATGGGGATAG
TGTGATGGTCCTTCCAACCATCCCTGAAGAAGAAGCCAAAAAAGCTTTTCCCGAAAGGAGTCTTCACCAAAGAGCT
CCCATCTGGCAAGAAATACCTCCGCTACACACCCACAGCTTTAAGTCTCTTGGAGAAGTTGGTGTCTGTGAGCCAGA
GGATGTCAGCTGCCAATTGTGTTTTCTGCAGCAATTCCATAAACACATCCTGGTGTCTATCACAGCCAAGGTTTT
TAGGTTGCTATACCAATGGCTTATTAAATGAAAATGGCACTAAAAGTTTCTTGAGATTCTTTATACTCTCTGCCT
TCAGCAATCAATTCCATTCATACATCAGCACTCTGCTGGTTCTGTTTGAAATATGTTCTGTATTTAAAACTCAAA
TCTTGTGGATCTCTGCAGGGCTTGTGACCAATGAAGTCATATTTGTTGATGGTTGACAAAGCTTGCTTCACTCC
ATCAGAGAATGACTATCAATTTTTTTTTTAACTGTCTATCACGTCCTCTCCTGTCACCCATTTTGAAGAGTGGCA
GAACTTGAAGTTCAACTTCCTCTGTAAATATCCAAGTATAAAGCCCAGGAACCTTCTAGAATAACCCAGATGCGCT
TTAATTTTTTTTTAATATGTTTTGATCACAGAACTTCTAGAATAACCCAGATGCTCTTTCATATTCTTTTAATAC
TCTTGATCACAGCTGGGGGAAAAAAGCTTTTTAATTCTGTACCTTCCTAGTAGATAAGTGAAGAGCAGGGAAAG
AGACCTTTAAATATTTTGCTATAAAAAAATTTGTGATAAGTTTCTATCAAAATGGGGAGATTGCAGAAAAGGCTT
CCCTTGGCTCCCAAGGAGGTGTAGCAGGTGTGAGCAATATTAGTGCCATGTGCCTTTCACACAGGGTTTGCATTT
ATCAGTCTGTTTTCCGATGATGTGTACATGAAAGAGTACACCATGTGAAGAGAAGAGAGAATGATTGAAAATGTT
TTAGTATAGAACTCTTCTTGCAGTGGGTGCTATTTTCTAGATTTTACTTTTTAGGGAACAAAATAAAATCCTTT
GTT

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FIGURE 137

MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPRDFTPVCTTELGRAAKLAPEFAKRNVKLIALSIDS
VEDHLAWSKDINAYNCEEPTEKLPFPIIDDRNRELAILLGMLDPAEKDEKGPVTARVVFVFGPDKKLKLSILYP
ATTGRNFDEILRVVISLQLTAEKRVATPVDWKDGDSVMVLPTIPEEEAKKLFPGGVFTKELPSGKKYLRYTPQP

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FIGURE 138

CAGAGTGCCCTTTCTCCCCGCCTCTTCCCCCTCCCGGGAGCTGCCAGTACTTGACGTGGCGTCACCGCCCTCTAC
CCTCGCTTTGCGTGCGTGTTTTCGTACAGCGGAGGTGGCGGCGCGGGCAGGTTCGGAGCTCGGAGCTGCTGCTTCT
GGTTCTCTTGTGGCCACCGTCGCTGTCCGGCTGCCCTTGGGCTGCCGAACAGACAAGGCGTGGGCCACAGCACCTC
AGAAGCCGACGCAGCTCGACGCAGGGGCCGGCAGGAGGTGGGCGATCGCGTGTTCGGAGGGCGCCGCGCGGGCAG
GCGGGCGGGCGCCAGAGGGGAAAGAGGCGGGGCGGCGGGTTCAGCCGCTGGCCGGGCCGGCGGGGGAATGTCGA
TGCTGACGCGATGCCGCTGCCCGGGTTCGGGAGGAGCTGAAGCAGGCCAAGGAGATCGAGGACGCCGAGAAGT
ACTCCTTCATGGCCACCGTCACCAAGGCGCCCAAGAAAGCAAATCCAGTTTGTGTATGACATGCAGGAGTTCACCA
AATTCCCCACCAAACTGGCCGAAGATCTTGTCTCGCTCGATCTCACAGTCTCCTCACTGACAGCTACAGTTCAG
CTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCCGAGAGAAGCAGCAAACCAACTCCAAGGGCAGCA
GCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGCCGGGAGATTGAGATTGCAGAGCAAGACATGT
CTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGGGAGAAGCCCTTGGCTGGTGCTAAATAGTGGGCTGTACAC
ACATCACAGCCCAGACAGCGGTGTTGATTGAGACACTCTGTGCCCTGGGGGCTCAGTGCCGCTGGTCTGCTTGTA
ACATCTACTCAACTCAGAATGAAGTAGCTGCAGCACTGGCTGAGGCTGGAGTTGCAGTGTTCGCTTGGAAGGGCG
AGTCAGAAGATGACTTCTGGTGGTGTATTGACCGCTGTGTGAACATGGATGGGTGGCAGGCCAACATGATCCTGG
ATGATGGGGGAGACTTAACCCACTGGGTTTATAAGAAGTATCCAAACGTGTTTAAGAAGATCCGAGGCATTGTGG
AAGAGAGCGTGACTGGTGTTCACAGGCTGTATCAGCTCTCCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACG
TCAATGATTCTGTTACCAAACAGAAGTTTGATAACTTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGA
GGACCACAGATGTGATGTTTGGTGGGAAACAAGTGGTGGTGTGTGGCTATGGTGAGGTAGGCAAGGGCTGCTGTG
CTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCCCTGCATGG
ATGGGTTTCAGGGTGGTAAAGCTAAATGAAGTCATCCGGCAAGTCGATGTCTGTAATAACTTGCACAGGAAATAAGA
ATGTAGTGACACGGGAGCACTTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATGGGCCACTCCAACACAG
AAATCGATGTGACCAGCCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGTTCTCAGGTGGACCATGTCATCT
GGCCAGATGGCAAACGAGTTGTCCTCCTGGCAGAGGGTCGTCTACTCAATTTGAGCTGCTCCACAGTTCCCACCT
TTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGATAGAACTCTATAATGCACCCGAGGGGCGATACA
AGCAGGATGTGTACTTGCTTCCTAAGAAAATGGATGAATACGTTGCCAGCTTGCACTCTGCCATCATTTGATGCC
ACCTTACAGAGCTGACAGATGACCAAGCAAAATATCTGGGACTCAACAAAAATGGGCCATTCAAACCTAATTATT
ACAGATACTAATGGACCATACTACCAAGGACCAGTCCACCTGAACCACACACTCTAAAGAAATATTTTTTAAGAT
AACTTTTATTTTCTTCTTACTCCTTTCTCTGATTTTTTCTCTATAATTTTATTCTTGTTTTTTCATCTCATT
TCCAAGTTCTGCAGACCACACAGGAACTTGCTTCATGGCTCTTTAGATGAAATAGAAGTTCAGGGTCCCTCACTC
TAGTCACTAAAGAAGGATTTTACTCCCCAGCCAGAAAGGTGATTCTTCTCTTTACCATTCTTGGGGACTTTAG
TCTTAATTAGGTACCTTATTAACAGGAAATGCTAAGGTACCTTCTCTGTGGAACAATCTGCAATGTCTAAATCGC
CTTAAAAGAGCCCATTTCTTAGCTGCTGAAATCAGTGCTCTTCACTTCTTTCAGAGAAGCAGGGATGGTACCTAC
CCGGCAGGTAGGTTAGATGTGGGTGGTGCATGTTAATTTCCCTTAGAAGTTCCAAGCCCTGTTTCTGCGTAAAG
GTGGTATGTCCAGTTCAGAGATGTGTATAATGAGCATGGCTTGTTAAGATCAGGAGGCCCACTTGGATTTATAGT
ATAGCCCTTCTCCACTCCACCAGACTTGCTCATTTTTTCAGTTTTTAAGTAACTAGACTACACTCTATTTGAGTTTA
ATTTTGTCTCTAGGATTTATTTCTGTTGTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 139

MSMPDAMPLPGVGEELKQAKEIEDAEKYSFMATVTKAPKKQIQFADDMQEF TKFPTKTGRRSLSRSSISQSSTD SY
SSAASYTDSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGRREIEIAEQDMSALISLRKRAQGEKPLAGAKIVG
CTHITAQTAVLIETL CALGAQCRWSACNIYSTQNEVAAALAEAGVAVFAWKGESEDDFWWCIDRCVNMDGWQANM
ILDDGGDLTHWVYKKYPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCRESILDG
LKRTTDVMFGGKQVVVCGYGEVKGCCAALKALGAIVYITEIDPICALQACMDGFRVVKLNEVIRQVDVVITCTG
NKNVVTREHLDRMKNSCIVCNMGHSNTEIDVTSLRTPELTWERVRSQVDHVIWPDGKRVVLLAEGRLNLSCSTV
PTFVLSITATTQALALIELYNAP EGRYKQDVYLLPKKMDEYVASLHLP SFD AHLTELTDQAKYLGLNKNGPFPK
NYYRY

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FIGURE 140A

CCCCGGGCTGTGGGCTACAGGCGCAGAGCGGGCCAGGCGCGGAGCTGGCGGCAGTGACAGGAGGCGCGAACCCGCA
GCGCTTACCGCGCGGGCGCCGCACCATGGAGCCCCGCGCTGTCGCTGGCCGTGTGCGCGCTGCTCTTCCTGCTGTGG
GTGCGCCTGAAGGGGCTGGAGTTCGTGCTCATCCACCAGCGCTGGGTGTTCTGTGCTCTTCCTCCTGCCGCTC
TCGCTTATCTTCGATATCTACTACTACGTGCGCGCCTGGGTGGTGTTCAGCTCAGCAGCGCTCCGCGCCTGCAC
GAGCAGCGCGTGCGGGACATCCAGAAGCAGGTGCGGGAATGGAAGGAGCAGGGTAGCAAGACCTTCATGTGCACG
GGGCGCCCTGGCTGGCTCACTGTCTCACTACGTGTCGGGAAGTACAAGAAGACACACAAAAACATCATGATCAAC
CTGATGGACATTCTGGAAGTGGACACCAAGAAACAGATTGTCCGTGTGGAGCCCTTGGTGACCATGGGCCAGGTG
ACTGCCCTGCTGACCTCCATTGGCTGGACTCTCCCCGTGTTGCCTGAGCTTGATGACCTCACAGTGGGGGGCTTG
ATCATGGGCACAGGCATCGAGTCATCATCCACAAGTACGGCCTGTTCCAACACATCTGCACTGCTTACGAGCTG
GTCCTGGCTGATGGCAGCTTTGTGCGATGCACTCCGTCCGAAAACCTCAGACCTGTTCTATGCCGTACCCTGGTCC
TGTGGGACGCTGGGTTCCTGGTGGCGCTGAGATCCGCATCATCCCTGCCAAGAAGTACGTCAAGCTGCGTTTT
GAGCCAGTGCGGGGCTGGAGGCTATCTGTGCCAAGTTCACCCACGAGTCCCAGCGGCAGGAGAACCACTTCGTG
GAAGGGCTGCTCTACTCCCTGGATGAGGCTGTCAATTATGACAGGGGTGATGACAGATGAGGCAGAGCCCAGCAAG
CTGAATAGCATTGGCAATTACTACAAGCCGTGGTTCTTTAAGCATGTGGAGAATATCTGAAGACAAACCGAGAG
GGCCTGGAGTACATTCCCTTGAGACACTACTACCACCGCCACACGCGCAGCATCTTCTGGGAGCTCCAGGACATC
ATCCCCTTTGGCAACAACCCCATCTTCCGCTACCTCTTTGGCTGGATGGTGCCTCCCAAGATCTCCCTCCTGAAG
CTGACCCAGGGTGAGACCCTGCGCAAGCTGTACGAGCAGCACACGCTGGTGCAGGACATGCTGGTGCCCATGAAG
TGCTGCGAGCAGGCCCTGCACACCTTCCAAAACGACATCCACGCTTACCCCATCTGGCTGTGTCCGTTTCATCCTG
CCCAGCCAGCCAGGCCTAGTGCACCCCAAAGGAAATGAGGCAGAGCTCTACATCGACATTGGAGCATATGGGGAG
CCGCGTGTGAAACACTTTGAAGCCAGGTCTGTCATGAGGCAGCTGGAGAAGTTTGTCCGACGCTGCATGGCTTC
CAGATGCTGTATGCCGACTGCTACATGAACCGGGAGGAGTTCTGGGAGATGTTTGAAGGCTCCTTGTACCACAAG
CTGCGAGAGAAGCTGGGTTGCCAGGACGCCTTCCCCGAGGTGTACGACAAGATCTGCAAGGCCGCCAGGCACTGA

GCTGGAGCCCCGCTGGAGAGACAGACACGTGTGAGTGGTCAGGCATCTTCCCTTCACTCAAGCTTGGCTGCTTTT
CTAGATCCACACTTTCAAAGAGAAACCCCTCCAGAACTCCCACCCTGACAGCCCAACACCACCTTCCTCCTGGCT
TCCAGGGGGCAGCCAGTGGAATGGAAGAATGTGGGATTTGGAGTCAGACAAGCCTGAGTCCAGTTCCCCGTTT
AGAACTCATTAGCTGTGTGACTCTGGGTGAGTCCCTTAACCCCTCTGAGCCCGGGTCTCTTCATTAGTTGAAAGG
GATAGTAATACCTACTTGCAGGTTGTTGTCTGAGTTGAGCACTGGTCACATTGAAGGTGCTGGGTAAGTGGT
AGCTCTTGTGTGCTTCCCGTTTCCGCTCACATCTGCAGTGGAGCCTGAAAAGGCTCCACATTAGGTACCTGTGCA
CAGCCATGGCTGGAATGATGAAGGGGATACGCTGGAGTTGCCCTGCCATCGCCTCCATCAGCCAGACGAGGTCTT
CACAGGAGAAGGACAGCTCTTCCCCACCCTGGGATCTCAGGAGGGCAGCCACGGAGTGGGGAGGCCCCAGATGCG
CTGTGCCAAAGCCAGGTCCGAGGCCAAAGTTCTCCCTGCCATCCTTGGTGCCGTCCTGCCCCCTTCCTCCTTCATG
CCTGGGCCTGCAGGCCACCCAGCCACCACTGAGTCCACTCGGAGTGCCTGTGTTTCTGGAGAAGGCATTCCA
GGGTTGAATCTTGTCCCAGCCTCAGCCTGGGACACCTAGGTGGAGAGAGTGGTCTCCGCTCTGAATTGGATCCAG
GGGACCTGGGCTCATTCTTCTTGGCTCACCAACCCTGCAGGCCCTCATCTTCCCAAAACCCACTTTGTCTTGGTG
GGAGTGGGTCCGCGCTGCTCTGCAGCAGGGGCTGGGGAGTGGACAGCATCAGGTGGGAAAGTGGAGTCCACCCTC
ATGTTTCTGTAGGATTCTCACCGTGGGGCTGGAAGAAAAGAGCATCGACTTGATTTCTCCAACCACTCATCCCTC
TTTTTCTTTCTTCCACCACTCCCCACCCAGCTGTAGTTAATTTAGTGCCTTACAAATCCTAAGCTCAGAGAAA
GTTCCATTTCCGTTCCAGAGGGAAGGGAACCTCCCTAGGTCCCTCCCTGGCTTGTTATAACGCAAAGCTTGGTTG
TTTATGCAACTCTATCTTAAGAACTGCCCAGCCTCAGCTGAAAACCCGAATCTGAGAAGGAATTGCGTCATGTAA
GGGAAGCTGGAATTAAGGGAGCTGAGCCAGTCATGGTTGTGGCGTGTGAGTCAGGAGACCTAGGTTTCAGCCCT
CTCTACTGTCAGCGAGCTGTGCAACGTGGGCAAGTCATTGTCTCTGAGCTGCAGTTTCCTCATCTGTGCACATCG
CTACAGACAAGACCTCCCTGGAACCTTCTGATTGTCTTAGACACTGTGGTTGCAAAACCCACGGAAAGCCTCAT
TTGTGTGGAAGTCAGAGGAAAATGATCCAGTGGACACTTGGGGATTATCTGTCAATTCAAGATCCTTCCTTCAA
CCCCAAGGCCAGCTCCCATCTCATTTCAGAAAGGCTCATACCTGGCTTGAGGGAAGCATCTGTCTTGTCAATC
CAGGTGCCAGAATCCTCTCAGAGTCATTGAAGGGTGTTCACCCATCCCACCAAGGCTTGGCACACTGCCAGTGT
CTTAGCAGGGTCTTGTGAGGGCTGGGGGCATCCAGGCATCAGAAGGCAAAGGAACCACCTACCCATTGTGCCT
CTGGAGGGGGCAGAAGAAAGAAAGAAACCTCATCTATATTTTACAAAGCATGTGAATTCTGGCATTAGCTCTCA
TAGGAGACCCATGTGCTTCCTTGCTCAGTGCAAACTGATGATTCTACTTGCTGTAGATGAATGGTTAACACGAG

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FIGURE 140B

CTAGTTAAACAGTGCCATTGTTTTGCCAGTGAAGCCTCCAACCCTAAGCCACTGGGACGGTGGCCAGAGATGCCA
GCAGCCTCTGTCGCCCTTAGTCATATAACCAAAATCCAGACCTTATCCACAACCCGGGGCTTGGAAGGAAGGTA
TTTTGGAATCACACCCTCCGGTTATGTTGCTCCAGTAAAATCTTGCCTGGAAAGAGGCAGTCTTCTTAGCATGGT
GAGCTGAGTTCATGGCTTTTTTTTGTAGCCAGTCCTGTCCCTGGCCATCCATGTGATGGTTTTGGATGGAGTTAA
ACTTGATGCCAGTGGGCAGTGCATGTGGAAAGTATCAGAGTAAGCCTCTCCCCTCCAGAGCCCTGAGTTTCTTGG
CTGCATGAAGGTTTTCTTTAGAATCAGAATTGTAGCCAGTTTCTTTGGCCAGAAGGATGAATACTTGGATATTAC
TGAAAGGGAGGGGTGGAGATGGGTGTGGCAGTGTATGGTGTGTGATTTTTATTTTCTTCTTTGGTCATGGGGGCC
AAGGAGAAAGGCATGAATCTTCCCTGTCAGGCTCTTACAGCCACAGGCACTGTGTCTACTGTCTGGAAGACATGT
CCCCGTGGCTGTGGGGCCGCTGCTTCTGTTTAAATAAAAGTGGCCTGG

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FIGURE 141

MEPAVSLAVCALLFLLWVRLKGLEFVLIHQRWVFCVLLPLSLIFDIYYVRAWVVFVFLSSAPRLHEQVRVDIQ
KQVREWKEQGSKTFMCTGRPGWLTVSLRVGKYKKTHKNIMINLMDILEVDTKKQIVRVEPLVTMGQVTALLTSIG
WTLPLPELDDLTVGGGLIMGTGIESSSHKYGLFQHICTAYELVLADGSFVRCTPSENSDLFYAVPWSCGTLGFLV
AAEIRIIPAKKYVKLRFEFVRGLEAICAKFTHEQRQENHFVEGLLYSLDEAVIMTGVMTDEAEPSKLNSIGNYY
KPWFFKHVENYLKTNREGLEYIPLRHYYHRHTRSIFWELQDIIPFGNNPIFRYLFGWMVPPKISLLKLTQGETLR
KLYEQHHVVQDMLVPMKCLQQALHTFQNDIHVYPIWLCFFILPSQFGLVHPKGNEAELYIDIGAYGEPRVKHFEA
RSCMRQLEKFVRSVHGFQMLYADCYMNREEFWEMFDGSLYHKLREKLGCDAPFEVYDKICKAARH

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FIGURE 142

GGGGGGGAAGTGCTCTAACTTTTCTTAAGGTTTTGTTGCTAGCCCTTCAAGTGCACTGAGCTATGTGACTCGGAT
GGTCTTTCACACGGCACATTTGGACATTTCCAGAACTACCATGAGATGGTTTAGACGGGAATTCATGCAAATGAG
GGGTCAAAAATGGTATAGTGACCCCGTCCACGTCTCCAAGCTCACGACCTTGGAGCCCCGTGGAGCTGGACTGA
GGAGGAGGCTGCACAGCGGGAGAGCAGCTGGTCCAGACCAGCCCTGCAGCCCCCACTCAGCCGGCAGCCAGATGG
CCCCGCAAGGCCTCCAGGGATGGCCCTAGCCACAGGCCCTGGCTGAGGTCTCTGGGTCGGTCAGTGACATGTAG
GTAGGAAGCACTGAAAATAGTGTTCCCAGAGCACTTTGCAACTCCCTGGGTAAGAGGGACGACACCTCTGGTTTT
TCAATACCAATTACATGGAACTTTTCTGTAATGGGTACAATGAAGAAGTTTCTAAAAACACACACAAAGCACATT
GGGCCAACTATTTAGTAAGCCCGGATAGACTTATTGCCAAAAACAAAAATAGCTTTCAAAAGAAATTTAAGTTC
TATGAGAAAATTCCTTAGTCATGGTGTGCGTAAATCATATTTTAGCTGCACGGCATTACCCACACAGGGTGGCA
GAACTTGAAGGGTTACTGACGTGTAAATGCTGGTATTTGATTTCTGTGTGTGTGGCCCTGGCATTAAAGGGCATT
TTACCCTTGCACTTTTACTAAAACACTGAAAAATATTCCAAGCTTCATATTAACCCTACCTGTCAACGTAACGAT
TTCATGAACGTIATTATATTGTCGAATTCCTACTGACAACATTATAACTGTATGGGAGCTTAACTTTATAAGGAA
ATGTATTTTGACACTGGTATCTTATTAAAGTATTCTGATCCTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 143

MVFHTAHLDISRTTMRWFRREFMQMRGQKWYSDPVHVLQAHDLGAPWSWTEEEAAQRESSWSRPALQPPLSRQPD
GPARPPGMAPSHRPWLRSLGRSVTCR

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FIGURE 144

GCCGCGTGCAGAGGTGCTCAAGCCTCCTCGCGGTCCGCAGTCAGTGCCGCCGCGCCCGGCCTCCCGCACGCCCCG
CAGGTAGCGCCCCCGCCGCGGCCAGAGTGCCTCGCGCCGGCACCAGCTCCCGGATAAACGGCGCGCCGCGCG
GAG**ATG**ACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGGCGCAGTCGGCGCCGCTGCCCATGGAGGGAGTGGAC
ATCAGCCCCAAACAGGACGAAGGCGTGCTGAAGGTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGATT
GGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTATTAGATGGCACAAAGTTTGACTCCAGTCTGGATCGCAAG
GACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTCATCAAGGCTTGGGACATTGCCATAGCCACCATGAAGGTG
GGGGAGGTGTGCCACATCACCTGCAAACAGAATATGCCTACGGTTCAGCAGGCAGTCCTCCAAAGATTCCCCC
AATGCCACGCTTGATTTGAGGTGGAGTTGTTTGAGTTTAAGGGAGAAGATCTGACGGAAGAGGAAGATGGCGGA
ATCATTTCGCAGAATACAGACTCGCGGTGAAGGCTATGCTAAGCCCAATGAGGGTGCTATCGTGGAGGTTGCACTG
GAAGGGTACTACAAGGACAAGCTCTTTGACCAGCGGGAGCTCCGCTTTGAGATTGGCGAGGGGGAGAACCTGGAT
CTGCCTTATGGTCTGGAGAGGGCCATTACAGCGCATGGAGAAAGGAGAACATTCCATCGTGACCTCAAGCCCAGC
TATGCTTTTGGCAGTGTTGGGAAGGAAAAGTTCCAAATCCCACCAAATGCTGAGCTGAAATATGAATTACACCTC
AAGAGTTTTGAAAAGGCCAAGGAGTCTTGGGAGATGAATTCAGAAGAGAAGCTGGAACAGAGCACCATAGTGAAA
GAGCGGGGCACTGTGTACTTCAAGGAAGGTAAATACAAGCAAGCTTTACTACAGTATAAGAAGATCGTGTCTTGG
CTGGAATATGAGTCTAGTTTTTCCAATGAGGAAGCACAGAAAAGCACAGGCCCTTCGACTGGCCTCTCACCTCAAC
CTGGCCATGTGTCTGCTGAAACTACAGGCCTTCTCTGCTGCCATTGAAAGCTGTAACAAGGCCCTAGAACTGGAC
AGCAACAACGAGAAGGGCCTCTTCCGCCGGGGAGAGGCCACCTGGCCGTGAATGACTTTGAACTGGCACGGGCT
GATTTCCAGAAGGTCTTGCAGCTCTACCCCAACAACAAAGCCGCCAAGACCCAGCTGGCTGTGTGCCAGCAGCGG
ATCCGAAGGCAGCTTGCCCGGGAGAAGAAGCTCTATGCCAATATGTTTGAGAGGCTGGCTGAGGAGGAGAACAAG
GCCAAGGCAGAGGCTTCCTCAGGAGACCATCCCACTGACACAGAGATGAAGGAGGAGCAGAAGAGCAACACGGCA
GGGAGCCAGTCTCAGGTGGAGACAGAAGCA**TAG**CCCCCTCTCCACCAGCCCTACTCCTGCGGCTGCCTGCCCCCA
GTCTCCCCACTCCACCCTGTTAGTTTTTGTAAAACTGAAGAATTTTGAGTGAATTAGACCTTTATTTTTCTATCT
GGTTGGATGGTGGCTTTAGGGGAAGGGGAAAGGTGTAGGCTGGGGGATTGAGGTGGGGAATCATTTTAGCTGGT
GTCAGCCCCCTCTCCCTTCCTCCATTGCACATGAACATATGTCCATCCATATATATTCATCAGAATGTTAATTTA
TTTTGCTCCCTCTGTTAGGTCCATTTTCTAAGGGTAGAAGAGGCAAGTGGTAGGGATGAGGTCTGATAAGAACCC
AGGGTGGAGAGGGGAGACTCCTGGGCAGCCGTTTTCTCATCCTTTCCCTCTCCAGTCCATTTCCAAATGTGGCC
TCCATGTGGGTGCTAGGGACATGGGAAAAACCACTGCTATGCCATTTCTTCTCTGTTCCCTTCCTCACCCCCG
ACGGTGTGGCTGATGATGTCTTCTGGTGTCTATGGTGACCACCCCCTGTTCCCTGTTCTGGTATTTCCCTGTCTAG
TTTCCCTCTCGGCCAGGTTGTGTCCAAAATCCCCCTCAGCCTCTTCTCTGCACGTTGCTGAAGGTCCAGGCTTG
CCTCAAGTCCATGCTTGAGCAATAAAGTGGAACAATAAAACCTGGGTGTCAGACAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 145

MTAEEMKATESGAQSAPLPMEGVDISPQDEGVLEKVIKREGTGTEMPMIGDRVVFVHYTGWLLDGTKFDSSIDRKD
KFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGI
IRRIQTRGEGYAKPNEGATIVEVALEGGYKDKLFDQRELRFEEIGEGENLDLPYGLERAIQRMKEGHSIVYLKPSY
AFGSVGKEKFQIPPNAELKYELHLKSFEEKAKESWEMNSEEKLEQSTIVKERGT VYFKEGKYKQALLQYKKIVSWL
EYESSFSNEEAQKAQALRLASHLNLAMCHLKLQAFSAAIESCNALELDSNNEKGLFRRGEAHLAVNDFELARAD
FQKVLQLYPNNKAAKTQLAVCQQRIRRLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKEEQKSNTAG
SQSQVETEA

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FIGURE 146A

AGGCAGCAGCAGAGGGAGAGCTCGGGGCTTGGAGGGGAAAACAGCGGAAGACCTAAGATTATCGGGAGGGCAGCAG
AGGCAGAGAACGAGGACAGGACCCTTGGCCGTCTTCTTCCAGGGAACGAGAGGTACAGCCTCGCTCTCCGCTTA
TGCTTCTGGCGCCCCAGCTTAAAGCCGAGGCTGCGGCTGACAAAGGGCTCGCGCCGGTGCCGCCGCCCTTCTCAT
CCGGGCATTTCGGGTCCCTGCGAGAAGGAGGGGGAAGGACAGAGGGGGAGGGGAAGGAGCCGGAGGGGCGCACACT
TGGAGCTGAAGCCCTCTCCAGGGCTCCGGGCCGGTGCCCCAACGGACAGAGGTGAGGAGGACCCGAGAGGTGG
CAGCGGCCGGGGCAGGAGGATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGCT
CCAACCCCTGCCGCTCTGCGGGGGCATCGCTGGAGCCGCCGCGCAGCTCCGGCACCCGGAGAAGACAACCCCGCCG
GGGCTGGGGGAGCGCGGTGGCCGGGGCTGCAGGAGGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTTT
ATGGAAGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAAATACATACT
TGTATGCCCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGTATTAGTGGAGGAAGCTGAGCAAC
TTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTCATCTATGCGATCTCACCTGGATTGGATATCA
CTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAAATTTGGACCAGGTTTCTCAGTTTGGGTGCAGATCAT
TTGCTTTGCTTTTTTGATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGTATTAGTTCCTTTTGTCTCATG
CCCAAGTCTCCATCACAAATGAAATCTATCAGTACCTAGGAGAGCCAGAACTTTCTCTCTGTCCCACAGAAT
ACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATTTAAGGACTGTGGGTGAAAAGCTTCTACCTG
GAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAAAAGAAATTCAGTAGAGTCCATCGAAGAGGTTTCTA
AGATTATTAAGAGAGCTCCAGTAATCTGGGATAACATTTCATGCTAATGATTATGATCAGAAGAGACTGTTTCTGG
GCCCCGTACAAAGGAAGATCCACAGAACTCATCCACGGTTAAAAGGAGTCCCTACTAATCCAAATTGTGAATTTG
AAGCCAACTACGTTGCTATCCACACCCTTGCCACCTGGTACAAATCAAACATGAATGGAGTGAGAAAAGATGTAG
TGATGACTGACAGTGAAGATAGTACTGTGTCCATCCAGATAAAATTAGAAAATGAAGGCAGTGATGAAGATATTG
AAACTGATGTACTCTATAGTCCACAGATGGCTCTAAAGCTAGCATTAAACAGAATGGTTGCAAGAGTTTGGTGTGC
CTCATCAATACAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTTG
CAGCACCTCTTTAAATGCCACAACCGTAGTAACAACAGTTTATCAGGAGCCATTATGAGCCAGGGAGCAGCCT
TGAGTGGTGAGCCTACTACTCTGACCAAGGAAGAAGAAAAGAAACAGCCTGATGAAGAACCCATGGACATGGTGG
TGGAAAAACAAGAAGAAACGGACCACAAGAATGACAATCAAATACTGAGTGAAATTGTTGAAGCGAAAATGGCAG
AGGAATTGAAACCAATGGACACTGATAAAGAGAGCATAGCTGAATCAAATCCCAGAGATGTCCATGCAAGAAG
ATTGTATTAGTGACATTGCCCCCATGCAAACTGATGAACAGACAAACAAGGAGCAGTTTGTGCCAGGTCCAAATG
AAAAGCCTTTGTACACTGCGGAACCAAGTACCCCTGGAGGATTTGCAGTTACTTGTCTGATCTATTCTACCTTCCTT
ACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAGTGTGTCTAGTG
TCAATTGCAAAGGAAAAGACTCTGAAAAAATTGAAGAATGGCGGTCACGAGCAGCCAAGTTTGAAGAGATGTGTG
GACTAGTGATGGGAATGTTCACTCGGCTCTCCAATTGTGCCAACAGGACAATTCTTTATGACATGTACTCCTATG
TTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTGGTTAGGGTGTGCTAGTCAATCTTCAG
CACAATTCTTAATTGGAGACCAAGAACCCTGGGCCTTTAGAGGTGGTCTAGCAGGAGAGTTCCAGCGTTTGTCTG
CAATTGATGGGGCAAATGATCTCTTTTTTTCAGCCACCTCCACTGACTCCTACCTCCAAAGTTTATACTATCAGAC
CTTATTTTCTTAAGGATGAGGCATCCGTGTACAAGATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCCCT
TTCAAAGTCAGCCTGATCTTATTGGAGACAAGTTAGTAGGAGGGCTGCTTTCCCTCAGCCTGGATTACTGCTTTG
TCCTAGAAGATGAAGATGGCATATGTGGTTATGCCTTGGGCACTGTAGATGTGACCCCTTTTATTAATAAATGTA
AAATTTCTGGATCCCTTTCATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAAGTCTCTGAGGCTGAGA
AAATAATGTTGAGTTTCCATGAAGAACAGGAAGTACTGCCAGAACTTTCTTTGCTAATTTCCCTTCTCTGATAA
AGATGGACATTCACAAAAAAGTAACTGACCCAAAGTGTGGCCAAAAGCATGATGGCTTGCCCTCTGTCTTCACTGA
AGGCTAATGGCTCCCGGGGAGCTTTCTGTGAAGTGAGACCAGATGATAAAAGAATTCTGGAATTTTACAGCAAGT
TAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACTTGGTTCGGAGCCTGTGACATT
TGTTGACACTGTGAAGTGTCCAAAAGTCTCTTAAGTGCACCTTGTGAATGGTAGTTGAGGTCTTCATACAGTTCA
GCCTCTAGAATGGTAACAAATCAGCCAATTGGATTGAAACAAAGAAGACTATGTAAACTCACCCATCACACTT
TGAGACTACTCACTGGTTGGAAGAATATAGTATTGCAGCAAATCCTGTATGAAGAGAGATGTGGGCTTCCTTTT
TGAGTCTTGTGTTAGGTGCTGAGACCTTTTACATGGGCTTATACAGGGAGAGAGTCTTCAATAAATGTAGTCAGC
ACTATTTTCTGCATCCAGTGTGGTTGCGTTTCTCACCTGAGAGTAATCAAGATAACATCTGTCTATCTTCTTGGT
TTATTGAGTGAAATGCCTCTCAGTCTTAGGGGACATGGCAGAGATGAAAGAAAGAAAGAGTGGGTTTCAGAAGTG

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FIGURE 146B

TCAGGGTGGAGTGAATCCAAGTGGGATGGTTGTGGCATTAGTTTAAGCTGAATAAATAATTTCAATTTGGGGCAG
TTATTCTGCTTTTTGTAAAGCCGTGGCCAATTGTCTCCTGTAATGACTGTTGGTTCAGGCATGTTGTACTTTGT
GGGACAAATGTGCATTTGTTTGTGGCAAAGCCTACAATTGACAACTTGTAAATTTCTTTGTATATAAACTAGC
TGTAACCTGACTATCCTTTGTGTTTACTGTTTTTGTAAATTTTTTTCCTCTATAAATGAAAGGGTGTGGTTCAG
AATGGCACTTTGAATAATGTAAACCAGTGAAAAGTGGATTTTCTTTACTTTTGTCTTTGGGTTTGGGGTTGTTTT
TGTTCTTTTTGAAGTTTTATTATTTTTAAAGTGCCTCCACCTAGGCGTAGGCCATGACCATTTGGGGTACGAGA
GCCTAATTTTGTAGGACTTAATCTGTTGAAAAGTGCAGTTACTTCTGGAAATTAACCTCAATATTAGGTCAGCAT
GTGAAATGTTGGATTTGACATGTCAGGTAGGGTTTCAGGGACTGATTGGTCCCATTGCCCCTCAGGTCAGTTGTTT
AATCTCAAGACCTGTTACTACTGATTTTTATTAAATCAGAGTCTTTAATTCTTGCATGTTTGTATCTAATTTCTGA
ACGAATGAGCACACTTTAACCAGTTATTTACAGTTACCTTTTTCTTTAACCAGGATTGTGAAAGCTTCATGTATT
TTAATTTAGATTCTGTGTTTTTTAAGGGTTCTGAGCATGAAGCTGGCAGATAGTCGGCAGGACTCATTTTTTCATC
ATGGCTGGCTGATTTCTCCATAGATTGATAACAGTATTTTGTTATCTTGCTTCTCTGTAGTTTTGCATCAGCTGT
TTAACTTTGAGCTGAGTGAGGGGAGAGGGGTAAAGAGAAAAGAACTTAAGTTTTCTTTACAGAACTCCACCATT
GTGGGCTTTGAGAGAGCCCTAAAGCATTGTACCTAGTGGTACCTAGTGACTTCCAACCAAAGCCTTTGAGTATGC
ACTAAATAGGTGAGAAGAAAGGAGAGAAGGTTTTTAGGTTAGAAACCTTTAACCAGATAGAAGGATATGGTATGTT
GTAAAGCTGGAACCAAGTTTGCATTTTTGAGGGCTTGAGATGAAGGGAAGACTCTTACCAGATAGTAAGACAGCT
GAGTTTTCTCAGTTTTCTCGTCTTAACACTAGTGGACAATTCTAGCATTTTGTGTTGGAGGATTTTCAGAGTTAAC
CTCATGGAATTCAGGATTTTTTAGCAAGTTTGCTTTTGGTTTTATCTTGGCTTTTAGTAATCATGTTGGCTGGTC
TGGTCACAGGTGACTGTGAAACAGATGCCCTGGTCTTGCTTTTCATCACTCTAGGATCATGAAGTGCTATGCTAT
TTCTTGTTATGAATATTAAGGTTGGAATTACATTTTTATTGATTGTTGGATCAGAGCTCAGTTCTCTGTAGAAA
ACGAAGTGTAAAAGACCATGCAAGAGGCAAAATAAACTTGAAGTGG

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FIGURE 147

MVQKESQATLEERESELSSNPAASAGASLEPPAAPAPGEDNPAGAGGAAGGARRFLCGVVEGFYGRPWVM
EQRKELFRRLQKWELNTYLYAPKDDYKHRMFWREMYSVEEAEQLMTLISAAREYEIEFIYAI SPGLDITFSNPKE
VSTLKRKLDQVSQFGCRSFALLFDDIDHNMCAADKEVFSSFAHAQVSITNEIYQYLGE PETFLFCPT EYCGTFCY
PNVSQSPYLRTVGEKLLPGIEVLWTGPKVVSKEIPVESIEEVSKI IKRAPVIWDNIHANDYDQKRLFLGPYKGRS
TELIPRLKGVLTNPNC EFEANYVAIHTLATWYKSNMNGVRKDVVMTDSEDSTVSIQIKLENEGSD EDIETDVLYS
PQMALKLALTEWLQ EFGVPHQYSSRQVAHSGAKASVVDGTP LVAAPSLNATTVVTTVYQEPIMSQGAALS GEPTT
LTKEEEKKQPD EEPMDMVVEKQEETD HKNDNQILSEIVEAKMAEELKPM DTDKESIAESKSP ESMQEDCISDIA
PMQTDEQTNKEQFVPGPNEKPLYTAEPVTLEDLQLLADLFYLPYEHGPKGAQMLREFQWLRANSSVVS VNCKGKD
SEKIEEWSRAAKFEEMCGLVMGMFTRL SNCANRTILYDMYSYVWDIKSIMSMVKSFVQWLGCRSHSSAQFLIGD
QEPWAFRGGLAGEFQRLLPIDGANDLFFQPPPLTPTSKVYTIRPYFPKDEASVYKICREMYDDGVGLPFPQS QPDL
IGDKLVGGLLSLSLDYCFVLEDEDGICGYALGTVDVTPFIKKCKISWIPFMQEKYTKPNGDKELSEAEKIMLSFH
EEQEVLPETFLANFP SLIKMDIHKKVTDPSVAKSMMACILSS LKANGSRGAFCEVRPDDKRILEFYSKLGCFEIA
KMEGF PKDVVILGRSL

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FIGURE 148

TTCCGGTTCCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAACTAGCTCTGGGACCGGGG
TCTGCGGCCGGCCCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCTGAGCTTTGGCTA
CTCCAGTTTCCCACGACACGATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTCCTGGCTG
TGGCAGTGAGAGAATCCTGGCAGACAGAAGAAAAAAGCTTGCAGCTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGA
AAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAGCTTTGAGAGCACTGTGGGCCAGGGTTCAG
ACACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAAATCA
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCA
TGCTGATCTATAAAGGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTGGTGATGATCT
CCTGCAATCGACACACCCTAGCGGACAATTTTAACCTGTGTCTGAGGAGCGTGGCAAAGTCCAAGATTGTTTCT
ACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCAGAGATCTCCACCTCAGTGTGGGTTCCATCTTACTTG
TCACGTTTGCATCACTGGTTGCTGTTTATGTTGTTGGGGGGTTCTTATACCAGCGACTGGTAGTGGGAGCCAAAG
GAATGGAGCAGTTTCCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCT
GCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAAG
AAAGGGATGACCATTTATTACCAATGTAGATTGCACCTTTATATGTCCAGCCTCTTCCTCAGTCCCCCAAACAAA
GCTACACAGCCAGATTTCTCAAGCAGTCTCAACTCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCA
GTTTGCTTTTGATTGTCATCTTCTCACTAGTAAACTGCCTTCCCTTTGTTCTTATTTTCTGTTTTTCTCTAG
AGAGGTACAGTTGTAAGTCAGAGTTAATATAATAGGGCCTGTGAAAACAGAGGCTTTTGCATTGTCTCTTGACAT
CAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTGGCCGTTTGTTTTTTAAACACATTTTCA
CAAGTTTTTGAGACACTGGATTTCTTTAATTAATAAAAAAAAAAATGCCAAGAAACATTATTTATACAGGGTTGATTGC
TTTCATGTTGTTATTCTGTACCCTATAGTAGCCTCCATGAGAACTGGTATTTCTTGCTGCTTGGAACACTTTG
CAGTGATTACTTGGTTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGACTTGCTTCTCCCA
CCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCCAATTACAGGATTATACGGTACCATCACATCATTTGTGG
AAATTGGGGTGACTGTATAGCTGGGATTGGGCTAAGGACTGTGGTCTTATCTGTCCACATACAGCCAAAATGCCT
ATCCAGAAATCCAGTTCGTTGGAAAGGAAAAATGGTACTCCTGTGCCACAGGGGTTCCAGAAAAGGGAAGTCACT
TTACCTTGCGGTGGTGGGATCCTGATGTCTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTTTTCTTACTCCTG
GTTCCCTACCAGTATTTCTAAACATGTCGCACCTTCTCCACAGGCATGTGGTTTTGACCTTTTTTCAATCTTCT
AGAAAGGGAACGGAAGCAGAAGTGGGACATCGAGGGCTCTGCTGTCCCTCTGCGCTGGGTGTGGAATGCTGCTGCA
CCTGTCCCTTCTGCTGGCTCAGGGAAGTGTCTTCTTGCCACATTTCTGTGGGGAAGGTTTTTAATCCTCTGAT
GCTTCCATCTTCTGTTTAGGCCATGTGCCAGAAAACCTGGACTGATCTTCTTTAATAGTGAACCCCTGGGCCA
CTGAAGAGTAACATGGCTCCACTGGACACAAAAGAGGGATGGAATCAACAGGCAGGGGGCCTTTTATAAGCCTTA
GGAAAAGAAAATGAACTATTTTCATCTTTGGACTTTTCAATACTATTGGAGTGATTTTTTTCTTTCTAAACAGGG
AAAAATAATGTTACAAAAGCATCTTTTTTGTATTGTTTGCATCCCTCCCCACACCCTGGTGTTTTAAATGAA
GAAAAAAAACCATCACCTTTTGTACAAAACCTTAAATGATTAATAAACAAACA

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FIGURE 149

MFPFYSCWRTGLLLLLLLAVAVRESWQTEEKTCDLVGEKGKESSEKELALVKRLKPLFNKSFESTVGQGSPTYIYIF
RVCREAGNHTSGAGLVQINKSNGKETVVGRLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRVVMISCNRHTL
ADNFPVSEERGKVQDCFYLFEMDSSLACSPESHLSVGSILLVTFASLVAVYVVGGLYQRLVVGAKGMEQFPH
LAFWQDLGNLVADGCDVCRSKPRNVPAAYRGVGDQLGEESEERDDHLLPM

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FIGURE 150

CTGAGGCCCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTTGAGACCCTCGTACCCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGT
TCGGAGCCCGGTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTCAACCACACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTCATT
TCCTGCCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTCACCCTCCAGCTGCTGTCCTTGCCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGTCAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCATGTGTTTTGCCATCTAGGCCTTACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAAGTGTGTTTG
AATTTTCCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTTCGTGAAATCTGCCACCACTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAAATCT
TGGTGCCTGG

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FIGURE 151

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYSASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGISEETTTGVHNLKMMANGILKVPAINVND SVTKSKFDNLYGCRESLIDGIKRATD VMIAGKVAVVAGYGDVG
KGCAQALRGFGARV IITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIKPQVD RYRLKNGRRI ILLAEGRLVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH
PDKYPVG VHF LPKKLDEAVAE AHLGKLVKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 152

ATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCCTGAGATGGAAGCCGGCTTCCCAGCCCAC
CATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTGGTTGCTGCTGT
GATATGGAGGAAGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTAAGGCTGAGTGGAGCGACAGTGCCAGGG
GTCTGAGTCTCACAGCTTGTAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCTGCCTTGTGTGC
GACTGAGATGCAGGATTTCCCTCAGCCTCCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTTTGCAAGGGCCT
CTGAATCTGTCTGTGTCCCTGTTAGCACAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGTCTACCATGACC
CCCTTCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGGCAGAGTGCGGC
AGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGATCGAAACCATCC
TGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCACGGGCCTGTAG
TCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTGAGCCAGGATTG
TGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAAATTAAAAAATAAAAAAGAA
CCTGGATCTCAATTTAATTTTTTCATATTCTTGCAATGAAATGGACTTGAGGAAGCTAAGATCATAGCTAGAAATA
CAGATAATTCCACAGCACATCTCTAGCAAATTTAGCCTATTCCCTATTCTCTAGCCTATTCCCTTACCACCTGTAAT
CTTGACCATATACCTTGGAGTTGAATATTGTTTTCTACTGCTGTGGTTTGAATGTTCCCTCCAACACTCATGTT
GAGACTTAATCCCTAATGTGGCAATACTGAAAGGTGGGGCCTTTGAGATGTGATTGGATCGTAAGGCTGTGCCTT
CATTTCATGGGTAAATGGATTAAATGGGTTATCACAGGAATGGGACTGGTGGCTTTATAAGAAGAGGAAAAGAGAAC
TGAGCTAGCATGCCCAACCCACAGAGAGCCTCCACTAGAGTGATGCTAAGTGGAATGTGAGGTGCAGCTGCCAC
AGAGGGCCCCCACCAGGGAAATGTCTAGTGTCTAGTGGATCCAGGCCACAGGAGAGAGTGCCCTTGTGGAGCGCTG
GGAGCAGGACCTGACCACCACCAGGACCCAGAAGTGTGGAGTCAGTGGCAGCATGCAGCGCCCCCTTGGGAAAG
CTTTAGGCACCAGCCTGCAACCCATTGAGCAGCCACGTAGGCTCGACCCAGCAAAGCCACAGGCACGGGGCTAC
CTGAGGCCTTGGGGGCCAATCCCTGCTCCAGTGTGTCCGTGAGGCAGCACACGAAGTCAAAGAGATTATCTCTT
CCCACAGATACCTTTTCTCTCCCATGACCCTTTAACAGCATCTGCTTCATTCCCCTCACCTTCCCAGGCTGATCT
GAGGTAAACTTTGAAGTAAAATAAAAGCTGTGTTTGAGCATC

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FIGURE 153

GGGATCATGGTAGATGGAACCCCTCCTTTTACTCTCCTCGGAGGCCCTGGCCCTTACCCAGACCTGGGCGGGCTCC
CACTCCTTGAAGTATTTCCACACTTCCGTGTCCC GGCCCGGCCGCGGGGAGCCCCGCTTCATCTCTGTGGGCTAC
GTGGACGACACCCAGTTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCGCCGTGGATG
GAGCAGGAGGGGTGAGAGTATTGGGACCGGGAGACACGGAGCGCCAGGGACACCGCACAGATTTTCCGAGTGAAC
CTGCGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCTGCAGTGGATGCATGGCTGCGAG
CTGGGGCCCCGACAGGCGCTTCCTCCGCGGGTATGAACAGTTTCGCCTACGACGGCAAGGATTATCTCACCCCTGAAT
GAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCTCCGAGCAAAAGTCAAATGATGCCTCTGAG
GCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGAGTGGCTCCACAAATACCTGGAGAAGGGGAAGGAG
ACGCTGCTTCACCTGGAGCCCCCAAAGACACACGTGACTCACCACCCCATCTCTGACCATGAGGCCACCCTGAGG
TGCTGGGGCCCTGGGCTTCTACCCCTGCGGAGATCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGAC
ACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGA
GAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCCTGAGATGGAAGCCGGCT
TCCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTG
GTTGCTGCTGTGATATGGAGGAAGAAGAGCTCAGGTGGAAGAGGAGGAGCTACTCTAAGGCTGAGTGGAGCGAC
AGTGCCCAGGGGTCTGAGTCTCACAGCTTGTAAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCT
GCCTTGTGTGCGACTGAGATGCAGGATTTCTCCTCAGCCTCCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTT
TGCAAGGGCCTCTGAATCTGTCTGTGTCCCTGTTAGCACAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGT
CTACCATGACCCCCCTTCTCACACTGACCTGTGTTCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCCTGGG
CAGAGTGCGGCAGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGAT
CGAAACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCA
CGGGCCTGTAGTCCCAGCTACTCAGGAGGCGGAGGCATGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGT
GAGCCAGGATTGTGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAAATTAAAAA
ATAAAAAAGAACC

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FIGURE 154

MVDGTLILLSSEALALTQTWAGSHSLKYFHTSVSRPGRGEPRFISVGYVDDTQFVRFDNDAASPRMVPRAPWMEQ
EGSEYWDRETRSARDTAQIFRVNLRTLRGYYNQSEAGSHTLQWMHGCELGPDRRFLRGYEQFAYDGKDYLTINED
LRSWTAVDTAAQISEQKSNDASEAEHQRAYLEDTCVEWLHKYLEKGKETLLHLEPPKTHVTHHPISDHEATLRW
ALGFYPAEITLTWQQDGEGHTQDTELVETRPAGDGTQKWAAVVVP SGEEQRYTCHVQHEGLPEPVTLRWKPASQ
PTIPIVGIIAGLVLLGSVVS GAVVA AVIWRKKSSGGKGGSYSKAEWSDSAQGSESHSL

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FIGURE 155

CCTCTCGGAGCTGGAAATGCAGCTATTGAGATCTTCGAATGCTGCGGAGCTGGAGGCGGAGGCAGCTGGGGAGGT
CCGAGCGATGTGACCAGGCCGCCATCGCTCGTCTCTTCCTCTCTCCTGCCGCCTCCTGTGTGCGAAAATAACTTTT
TTAGTCTAAAGAAAAGAAAAGACAAAAGTAGTCGTCCGCCCTCACGCCCTCTCTTCCTCTCAGCCTTCGCCCGGT
GAGGAAGCCCCGGGTGGCTGCTCCGCCGTGCGGGCCGCGCCGCCGAGCCCCAGCGCCCCGGGCGCCCCCGCACG
CCGCCCCCATGTCATCCCTTCTACACCCGGGCCGCCACCATGATAGGCGAGATCGCCGCCGCGGTGTCTTCATCT
CCAAGTTTCTCCGCACCAAGGGGCTGACGAGCGAGCGACAGCTGCAGACCTTCAGCCAGAGCCTGCAGGAGCTGC
TGGCAGAACATTATAAACATCACTGGTTCCAGAAAAGCCATGCAAGGGATCGGGTTACCGTTGTATTTCGCATCA
ACCATAAAATGGATCCTCTGATTGGACAGGCAGCACAGCGGATTGGACTGAGCAGTCAGGAGCTGTTTCAGGCTTC
TCCCAAGTGAACCTCACACTCTGGGTTGACCCCTATGAAGTGTCTACAGAATTGGAGAGGATGGCTCCATCTGTG
TGCTGTATGAAGCCTCACCAGCAGGAGGTAGCACTCAAAACAGCACCAACGTGCAAATGGTAGACAGCCGAATCA
GCTGTAAGGAGGAACTTCTCTTGGGCAGAACGAGCCCTTCCAAAACTACAATATGATGACTGTATCAGGT**TAA**G
ATATAGTCTGTGGATGGATCATCTGATGATGATCCATAAAATTTGATTTTGGCTTTGGGTGGGCTCCTCTTGGGGA
TGGATTATGGAATTTAAACCATGTCACAGCTGTGAAGATCTGGCACAAAGATAGAATGGTAAAAAAAAAAAAAAAAAT
TTTAAGTGACAGTGCCATAGTTTGGACAGTACCTTTCAATGATTAAATTTTAATAGCCTGTGAGTCCAAGTAAATG
ATCACTTTATTTGCTAGGGAGGGAAGTCCTAGGGTGGTTTCAGTTTCTCCAGACATACCTAAATTTTTTACATCA
ATCCTTTTAAAGAAAATCTGTATTTCAAAGAATCTTTCTCTGCAGTAAATCTCGCAGGGGAATTTGCACTATTAC
ACTTGAAAGTTGTTATTGTAAACCTTTTCGGCAGCTTTTAATAGGAAAGTTAAACGTTTTTAAACATGGTAGTACT
GGAAATTTTACAAGACTTTTACCTAGCACTTAAATATGTATAAAATGTACATAAAGACAACTAGTAAGCATGACC
TGGGGAAATGGTCAGACCTTGTATTGTGTTTTTGGCCTTGAAAGTAGCAAGTGACCAGAATCTGCCATGGCAACA
GGCTTTAAAAAGACCCTTAAAAAGACACTGTCTCAACTGTGGTGTAGCACCAGCCAGCTCTCTGTACATTTCG
TAGCTTGTAGTTTCTAAGACTGAGTAACTTCTTATTTTAGAAAGTGGAGGTCTGGTTTGTAACTTTCTCTGT
ACTTAATTGGGTAAAGTCTTTTCCACAAACCACCATCTATTTTGTGAACCTTTGTAGTCATCTTTTATTTGGTA
AATTATGAAGTGGTGTAATTTGTACAGTTCATGTATATTGATTGTGGCAAAGTTGTACAGATTTCTATATTTG
GATGAGAAATTTTCTCTCTCTATAATAAATCGTTTCTTATCTTGGCATTTTAAACC

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FIGURE 156

MHPFYTRAATMIGEIAAAVSFISKFLRTKGLTSERQLQTFSSQLQELLAEHYKHHWFPEKPCKGSGYRCIRINHK
MDPLIGQAAQRIGLSSQELFRLLPSELTLWVDPYEVSYRIGEDGSICVLYEASPAGGSTQNSTNVQMVDSRISCK
EELLGRTSPSKNYNMMTVSG

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FIGURE 157

GGACACGAGGACCGACCGCAATTGCGGCTTGTTTTCTACCCAGTGCATGTGGCAGGAGCGGTGAGATCACTGCCT
CACGGCGATCCTGGACTGACGGTCACGACTGCCTACCCTCTAACCTGTCTGAGCTGCCCTTGCCACACACC
CCAAACCTGTGTGCAGGATCCGCCTCCATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTGCATTCCG
CGCCAGTTGCCTGGCTCACATTTCGGAGGCTGGTGTCCAGGGTCTCAGCGCGGGGGACGACTCAGAGTTGGGGTCT
CACTGTGTGCCCAGACTGGTCTCGAACTCTTGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCCAGAATGCCGAG
ATGATAGAGACGGGGTCTGACTGTGTTACCCAGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCCTGCCTTA
GCTTCCAAGAATGCTGAGGTTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAAT
GAGTTAGAGCCCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAAT
GGTCTGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCAGCCGCGGCTAAGTTCACGGGCCTGTCCAAG
GAGGAGCTGCTGAAGGTGGCAGGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACTGCTGCTGCTCTTCTGGCTC
GGCTGGCTCGGCATGCTTGCTGGTGCCTGGTGCATAATCGTGCGAGCGCCGCTTGTGCGAGCTACCGGCGCAG
AAGTGGTGGCACACGGGCGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGGGGCAACCTG
GCGGGTCTGAAGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGGTCCAATTACAAG
AACCAGAAGGATGATGTGCTCAGACTGACTTGCTGCAGATCGACCCCAATTTTGGCTCCAAGGAAGATTTTGAC
AGTCTCTTGCAATCGGCTAAAAAAAAGAGCATCCGTGTCAATTCTGGACCTTACTCCCACTACCGGGGTGAGAAC
TCGTGGTTCTCCACTCAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTTGGCTGCAAGCTGGC
GTGGATGGGTTCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATC
ACCAAGGGCTTCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTA
CTCGAATCCAACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAA
TCCCTAGTCACACAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCTCAGGCAAGGCTCCTG
ACTTCCTTCTTGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTGCCAGGGACCCCTGTTTTT
AGCTACGGGGATGAGATTGGCCTGGATGCAGCTGCCCTTCCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGG
GATGAGTCCAGCTTCCCTGACATCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCT
GGCTCCCTCCTTTCTTGTTCGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTC
CACGCGTTCTCCGCTGGGCCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTG
CTTAACCTTTGGGGATGTGGGCCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCC
AAGGCTGACCTCCTGCTCAGCACCCAGCCAGGCCGTGAGGAGGGCTCCCTCTTGAGCTGGAACGCCTGAAACTG
GAGCCTCACGAAGGGCTGCTGCTCCGCTTCCCTACGCGGCCTGACTTCAGCCTGACATGGACCCACTACCCTTC
TCCTTTCCTTCCCAGGCCCTTTGGCTTCTGATTTTTCTCTTTTTTAAAAACAAACAAACAACTGTTGCAAAAAA
AAAAAAAAAAAAA

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FIGURE 158

MSQDTEVDMKEVELNELEPEKQPMNAASGAAMSLAGAEKNGLVKIKVAEDEAEAAAAAKFTGLSKEELLKVAGSP
GWVVRTRWALLLLFWLGLGMLAGAVVIVRAPRCRELPAQKWWHTGALYRIGDLQAFQGHGAGNLAGLKGRLDYL
SSLKVKGLVLGP I HKNQKDDVAQTDLLQIDPNFGSKEDFDSLLQSAKKKSIRVILD LTPNYRGENSWFSTQVDTV
ATKVKDALEFWLQAGVDGFGVRDIENLKDASSFLAEWQNITKGFSEDRLLIAGTNSSDLQQILSLESNKDLLLT
SSYLSDSGSTGEHTKSLVTQYLNATGNRWCSWSLSQARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGDEIGLDA
AALPGQPM EAPVMLWDESSFPDIPGAVSANMTVKGQSEDPGSLLSLFRRLSDQRSKERSLLHGDFHAFSAGPGLF
SYIRHWDQNERFLVVLNFGDVGLSAGLQASDLPASASLPADLLLSTQPGREGSPLELERLKLKLEPHEGLLLRF
PYAA

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FIGURE 159

GGCACGAGGCCCGGTTCCGGCGCGGTTGAGGCCTTCGGTGGTGAACGAGTCTCCAGCACCCATGTCTGGTTTGTCTG
TGGCCCACCAGCCCGGCGCGGCCCTTTTCCGTTAGCGTTGCTGCTTTTGTTCCTGCTCGGCCCCAGATTGGTCCT
TGCCATCTCCTTCCATCTGCCCATTAACCTCTCGCAAGTGCCTCCGTGAGGAGATTCACAAGGACCTGCTAGTGAC
TGGCGCGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGC
TGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGT
GGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA
AGACCTTTCAGAATCTATTGTTAATGATTTTGCCTACATGAAGAAGAGAGAAGAGGAGATGCGTGATACCAACGA
GTCAACAAACACTCGGGTCCTATACTTCAGCATCTTTTCAATGTTCTGTCTCATTGGACTAGCTACCTGGCAGGT
CTTCTACCTGCGACGCTTCTTCAAGGCCAAGAAATTGATTGAGTAATGAATGAGGCATATTCTCCTCCACCTTG
TACCTCAGCCAGCAGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTT
GGAGCTTTCTTGCCAGAACTGATCTCTTTTGGTGTGGGAGGACATGGGGTACCACCTACACCCAACAAGTCAATG
AGGGACTTCTTTTTAATTTGGTAGGATTTTGAAGTGGTTTTGCAACAATAGGTCTATTATTAGAGTCACCTATGAC
AAAAAATAGGGGTTACCTAGATAATGCCAAAGTCAGCATTTGTCTGGGTTCCCTTGTGTGATCTGTTTGGACTA
TGTTTTCTTTTCTTCTCCCACTTGCTCAGCAGCTTGGGCTTCCATTCTAGTTCTTTTACCAAGATTTTTGTGTGA
CCATGTTGACTTCATTTGGATTGCCCTCTTTCAATTTCCCTTGTGAAAAACACCCTTAACCTTTCTCTTTACCTTAG
CTGAAATGTTTACATAGCTTCTGGTGATATCTTTTCATGATTTTATATCTCTTAAAATGGTGATGGATGTGACAC
CTCATAAAAGTGAGCTTTGAACTGTAGATAACTCTTAAAGAAAAATGTCATTTTAGACAATTAAAATATTTGTGCT
CAACTGCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 160

MSGLSGPPARRGPFPLALLLLFLLGPRLVLAISFHLPINSRKCLREEIHKDLLVTGAYEISDQSGGAGGLRSHLK
ITDSAGHILYSKEDATKGKFAFTTEDYDMFEVCFESKGTGRIPDQLVILDMKHGVEAKNYEEIAKVEKLKPLEVE
LRRLEDLSESI V NDFAYMKKREEEMRD TNES TNTRVLYFSIFS MFCLIGLATWQVFYLRREFKAKKLIE

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FIGURE 161

GTCCGTACTGCAGAGCCGCTGCCGGAGGGTTCGTTTTAAAGGGCCGCGTTGCCGCCCCCTCGGCCCGCCATGCTGC
TATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTGCCCGAGCCCGCCGTCTACTTCAAGGAGCAGTTTC
TGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCAGTT
CCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTCTGT
CGGCCAGTTTCGAGCCTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAAACATGAGCAGAACA
TCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAGAAT
ACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGGGCA
AGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGCGGC
CAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGGAAGACGATTGGGACTTCC
TGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATGATC
CCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCCAGCATATCCCTGACCCTGATGCTAAGAAGCCCCGAGGACT
GGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTGAGAACCCTGAGTACAAGGGTGAGTGGGAAGCCCC
GGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCGATC
CCAGTATCTATGCCTATGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCTTTG
ACAACCTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGGCAG
CAGAGAAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCAAAG
AGGAGGAGGAGGCAGAGGACAAGGAGGATGATGAGGACAAAAGATGAGGATGAGGAGGATGAGGAGGACAAGGAGG
AAGATGAGGAGGAAGATGTCCCCGGCCAGGCCAAGGACGAGCTGTAGAGAGGGCCTGCCTCCAGGGCTGGACTGAG
GCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTTCATTTTTTTC
CAGGCTGGTTCGGATTTGGGGTGGATTTTGGTTTTGTTCCTCCTCCACTCTCCCCACCCCCCTCCCCGCCCTT
TTTTTTTTTTTTTTTAACTGGTATTTTATCCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTCTT
GATCAACATCTTTTCTTGCTCTGTGCCCCTTCTCTCATCTCTTAGCTCCCTCCAACCTGGGGGGCAGTGGTGT
GGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCCTGGAGCCCAGAGGAGGGCAGCAGAAGGGGGTGGTG
TCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTACCCCTCCCTTTCTCCCTGCCCCCAGGA
CTGGGCCACTTCTGGGTGGGGCAGTGGGTCCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATTT
CTATTAAATTAAATTTTGTGTCTC

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FIGURE 162

MLLSVPILLGLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPSLDQTDHMGDSEYNIMFGPDICGPGTKKVHVIIFY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWHPIDNPEYS
PDPSIYAYDNFGLGLDLWQVKSGTIFDNFLITNDEAYAEFFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKK
RKEEEEAEDKEDDEDKDEDEDEEDKEDEEEEDVPGQAKDEL

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FIGURE 163

GAATTTAATATGACTCACTATAGGGAATTTGGCCCTCGAGGCCAAGAATTCGGCACGAGGGCGCGCGGCCCTCGAG
GCCTTCCGGTGCGGGAGAACTACTACTCCCATAATGCCCCGCGGTCCCGCGAGCTGCCAGTCTCGTCGCGAGAA
GCAGCGGCCCGGGGCGACTGAGCGGACAAACGGAAGTGTAGGTTACGGTCTGAGACATCACCGCCAAGCTGGGCA
TCGGGGAGATGGCCGAGACTGACCCCAAGACCGTGCAGGACCTCACCTCGGTGGTGCAGACACTCCTGCAGCAGA
TGCAAGATAAAATTTAGACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTAGTCGCATTGATGATC
TGGAAAAGAATATCGCGGACCTCATGACACAGGCTGGGGTGAAGAAGTGGAAAGTGAAAACAAGATACCTGCCA
CGCAAAAGAGTTGAAGGTTGCTAATAATTTATACTGGAATCTGGCATTTTTCCAAGCCAAGAGAAGATCGAATGG
CTTTTTGCAGCTAACTACTATGTGTAGACAGGTTTTATATTATAAAGTATGCATTCTTATCACCTAGTATATAGT
TAGTTTGTAGAGTGATTTCCCCCAGTTTTCTTGAACATGGTATCTTCACATCTTGGACCTTGGTCAGTTGTGCTA
TTCATTATTAAACACTAAAACCTTTGGCGGTTCTTGCAACATTGTCAGATTTTTTAGTGTATTTCTGTGAAGTC
ATTTTTTTCTTGTCAATTCCTTTGTAGTAGTTGCTGTTTGGATAAAAGTTGATGTGTGATTTTTTATTAAACAA
ATAGTAAACCCCTTCAATTATAGTTAGTCTTGGTGAAGTAAGATGTTTGTAGACTTTAGAGTTCTTTAATTCTTGG
CACAACGTGACTGTTGAGCTAACACCAAATAGTGTGTTGGCAATACTTTTCAAATGGCTGAAAACACCTAAAAAT
TGTTCAATTCAGAAATATCTGTCACTGCTCTGTTGCCAAAACCTCAGAATAGAACTTAGACGTATGTCTGAGTCCCT
GAGATCACATGCTAAAGTCGATGAAAAGTAACCACTGCCACTGTCTTGTGTGAGAACTTTTACAGTACAGAAAAAT
AACAGAATAGCCTTCTGTAATGAGGCGTTTGTAGAGTTTTGTCATGAGATTCTAATACTTCAGTAGGACCCTACC
TACGTGGTTTCATCTACAATGGTTACCATAAAAAATCTGGCAGGATTTTAAACTCAATCAGTCTTTCCCTTTGAGC
TAGTGACTTGAAAAGAAAGAGAGAAGGAAAAGAGACCATATTAAGTCCATGCCAGTTGCTTGGCTAGAATATGAT
CAACGACTTGTAGTAGACTCAAGTTTTTAAAAAACACTATTTTACTTAAACTGTTTCTTATCTAAATTCCTTGCAG
AGTGTCAATGTTATCATTGATTATAGAAGACAGGGATAATACCTTTATCTCTGGCCACTCAAAAAATGCAGTGCCA
GGAGTGCTAAACCTAGAGGCCAATACTGATGACCTGGAAGGTGATCCATATGATTGTCACCACAAAGTGCTTTTA
CACAAAAACTTGAAAATTTGAAAACATGATTTTTTTAAGTTTCTCATCTCACCAGTCTTGGTGTATATATTGCA
AATCTATCAAAGTAAGAAATAATTTGTGCTGTATACAAATTACATGGGGAACATAAAGGAGTGAGATCCTTCTGT
GATAAAATGAATTCACCACTCTGGTTACCCAACCTACAGAACCTCCTTTGATCAGGCCAGTAGGTTGTGATGCAGG
CTGGAGCCCCCGAATGCCCCACACACACTGCAGCATTGACCAGACCATCCGAAACCTGCGTCCCTGGTGATGTTT
TCAAGCCTCGGAAGTGGCAAATGGAAATGATATGGCCGGTTGCGGTTGTAGGAGAGTTGTGACTTAGGCAGGAGT
CGACCTCCTCAAGTAATGGAACGATTTCAAAGGCAGGCTGCCCTGACCAAAAATATCTGCCATGAATAAAGGTGC
CTGAAATCCTGCTATGAAGCTTCCTTTGTGTCAAAAATCTGTTTGGTTTTTCAGATGGAAATGCAGAAATCACATT
AGAGTATCAACTAAAACCTCTGGACGGATTAAGTACAAGTAGCCCAAGGCAAAGCAGGAGAGGGGGTGTGGGGG
AGGTTGCCTGCTGGAAGGGGAAGCTGAGGAGCGGGAGGAGGGCTTGCCAAGACTGGCATTGCAGGAGACTTGTCT
CAGGTGTGTTCCAGAACTCTTGCCCTGGAGATGCTGCAGGAAGGAAGGGGTTATGGTCACTTGGGTTTAGACG
ACATTCTGTGAACCTCATGAAGAAATTAGCATATTAAAGACTCTGAAAGTAGAGCAGAGAACTCAGCTTTAACCT
GCTCACCTGCTAGTTTTTC

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FIGURE 164

MKLPLCQKSVWFSDGNAEITLEYQLKPLDGLSTSSPRQSRGGVGGGCLLEGEAEEREGLPRLALQETCLRCVP
RTLAPGDAAGRKGLWSLGFRRHSVNLMMKKLAYKDSESRAENSALTCSPASF

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FIGURE 165

GGCACGAGGGCGGGAGGAGTGGCAGCGGCAAGGCAGCCCAGTTTCGCGAAGGCTGTCGGCGCGCCGCGGCCCGCA
GGCACCCGGCACGCGCCTTCCCCGCAGGCACCCGGCACGCGCCTTCCCCGCCGCCACGATGCCCAAGAGGAAGGT
CAGCTCCGCCGAAGGCGCCGCCAAGGAAGAGCCCAAGAGGAGATCGGCGCGGTTGTCAGCTAAACCTCCTGCAAA
AGTGGAAGCGAAGCCGAAAAAGGCAGCAGCGAAGGATAAATCTTCAGACAAAAAAGTGCAAACAAAAGGGAAAAG
GGGAGCAAAGGGAAAACAGGCCGAAGTGGCTAACCAAGAACTAAAGAAGACTTACCTGCGGAAAACGGGGAAAC
GAAGACTGAGGAGAGTCCAGCCTCTGATGAAGCAGGAGAGAAAAGAAGCCAAGTCTGATTAATAACCATATACCAT
GTCTTATCAGTGGTCCCTGTCTCCCTTCTTGTACAATCCAGAGGAATATTTTTATCAACTATTTTGTAATGCAA
GTTTTTTAGTAGCTCTAGAAACATTTTTAAGAAGGAGGGAATCCCACCTCATCCCATTTTTTAAGTGTAATGCT
TTTTTTTAAGAGGTGAAATCATTTGCTGGTTGTTTATTTTTTGGTACAACCAGAAAATAGTGTGGGATATTGAAT
TATGGGAGGCTCTGACTGTCTCGGGTGTGAGCTTAACATTCCACAGATGGGGGGTTAGTTTTTATATCCTATAAT
ACAAAGCATATTAAATGGCAATATGGAGTCAGTCCTGCATTTAATGTCTTGAACATTTTAAATTACTTCTATTAC
CATGTTGTTTTTTAGTAGAATTGTTTCCTAAAGAAAACCACTCTTTGATCATGGCTCTCTCTGCCAGAATTGTGT
GCACTCTGTAAACATCTTTGGTTGTGGTAGTCCTGTTTTCTTAATAACTTTGTTACTGTGCTGTGAAAGATTACAG
ATTTGAACATGTAGTGTACGTGCTATTGAGTTGTGAACTGGTGGGCCGTATGTAACAGCTGACCAACGTGAAGAT
ACTGGTACTTGATAGCCTCTTAAGGAAAATTTGCTTCCAAATTTTAAAGCTGGAAAGTCACTGGAATAACTTTAAA
AAAGAATTACAATACATGGCTTTTTAGAAATTCGTTACGTATGTTAAGATTTGTGTACAAATTGAAATGTCTGTA
CTGATCCTCAACCAATAAAATCTCAGTTATGAAAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 166

MPKRVSSAEGAAKEEPKRRSARLSAKPPAKVEAKPKKAAAKDKSSDKKVQTKGKRGAKGKQAEVANQETKEDLP
AENGETKTEESPASDEAGEKEAKSD

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FIGURE 167A

AGAGCGAGCAGGGGAGAGCGAGACCAGTTTTTAAGGGGAGGACCGGTGCGAGTGAGGCAGCCCCGAGGCTCTGCTC
GCCCACCACCCAATCCTCGCCTCCCTTCTGCTCCACCTTCTCTCTCTGCCCTCACCTCTCCCCGAAAAACCCCT
ATTTAGCCAAAGGAAGGAGGTCAGGGGAACGCTCTCCCTCCCTTCCAAAAACAAAAACAGAAAAACCCCTTTT
CCAGGCCGGGGAAAGCAGGAGGGAGAGGGGCCCGCGGGCTGGCCATGGAGCTGCTGTGCCACGAGGTGGACCCGG
TCCGCAGGGCCGTGCGGGACCGCAACCTGCTCCGAGACGACCGCGTCTGCAGAACCTGCTCACCATCGAGGAGC
GCTACCTTCCGCAGTGCTCCTACTTCAAGTGCCTGCAGAAGGACATCCAACCCTACATGCGCAGAATGGTGGCCA
CCTGGATGCTGGAGGTCTGTGAGGAACAGAAGTGCAGAAGAAGAGGTCTTCCCTCTGGCCATGAATTACCTGGACC
GTTTCTTGGCTGGGGTCCCCACTCCGAAGTCCCATCTGCAACTCCTGGGTGCTGTCTGCATGTTCTTGGCCTCCA
AACTCAAAGAGACCAGCCCGCTGACCGCGGAGAAGCTGTGCATTTACACCGACAACCTCCATCAAGCCTCAGGAGC
TGCTGGAGTGGAACCTGGTGGTGTGCTGGGGAAGTTGAAGTGAACCTGGCAGCTGTACTCCTCATGACTTCATTG
AGCACATCTTGCGCAAGCTGCCCCAGCAGCGGGAGAAGCTGTCTCTGATCCGCAAGCATGCTCAGACCTTCATTG
CTCTGTGTGCCACCGACTTTAAGTTTGCCATGTACCCACCGTCGATGATCGCAACTGGAAGTGTGGGAGCAGCCA
TCTGTGGGCTCCAGCAGGATGAGGAAGTGAGCTCGCTCACTTGTGATGCCCTGACTGAGCTGCTGGCTAAGATCA
CCAACACAGACGTGGATTGTCTCAAAGCTTGCCAGGAGCAGATTGAGGCGGTGCTCCTCAATAGCCTGCAGCAGT
ACCGTCAGGACCAACGTGACGGATCCAAGTCGGAGGATGAACTGGACCAAGCCAGCACCCCTACAGACGTGCGGG
ATATCGACCTGTGAGGATGCCAGTTGGGCCGAAAGAGAGAGACGCGTCCATAATCTGGTCTCTTCTTCTTTCTGG
TTGTTTTTGTCTTTTGTGTTTTAGGGTGAAACTTAAAAAAAAAATTTCTGCCCCACCTAGATCATATTTAAAGAT
CTTTTAGAAGTGAGAGAAAAAGGTCCTACGAAAACGGAATAATAAAAAGCATTGGGTGCCTATTTGAAGTACAGC
ATAAGGGAATCCCTTGTATATGCGAACAGTTATTGTTTGATTATGTAAAAGTAATAGTAAATGCTTACAGGAAA
ACCTGCAGAGTAGTTAGAGAATATGTATGCCTGCAATATGGGAACAAATTAGAGGAGACTTTTTTTTTTTCATGTT
ATGAGCTAGCACATACACCCCTTGTAGTATAATTTCAAGGAACCTGTGTACGCCATTTATGGCATGATTAGATTG
CAAAGCAATGAACTCAAGAAGGAATTGAAATAAGGAGGGACATGATGGGAAGGAGTACAAAACAATCTCTCAAC
ATGATTGAACCATTTGGGATGGAGAAGCACCTTTGCTCTCAGCCACCTGTTACTAAGTCAGGAGTGTAGTTGGAT
CTCTACATTAATGTCTCTTGTCTGTCTACAGTAGCTGCTACCTAAAAAAGATGTTTTATTTTGGCAGTTGGACA
CAGGTGATTGGCTCCTGGGTTTTATGTTCTGTGACATCCTGCTTCTTCTTCCAAATGCAGTTCATTGCAGACACC
ACCATATTGCTATCTAATGGGGAAATGTAGCTATGGGCCATAACCAAACTCACATGAAACGGAGGCAGATGGAG
ACCAAGGGTGGGATCCAGAAATGGAGTCTTTTCTGTTATTGTATTTAAAAGGGTAATGTGGCCTTGGCATTCTTC
TTAGAAAAAACTAATTTTTGGTGCTGATTGGCATGTCTGGTTCACAGTTTAGCATTGTTATAAACCATTCCATT
CGAAAAGCACTTTGAAAAATTGTTCCCGAGCGATAGATGGGATGGTTTATGCAAGTCATGCTGAATACTCCTCCC
CTCTTCTCTTTTGGCCCCCTCCCTTCCCTGCCCCAGTCTGGGTTACTCTTCGCTTCTGGTATCTGGCGTTCTTTGG
TACACAGTTCTGGTGTTCCCTACCAGGACTCAAGAGACACCCCTTCCCTGCTGACATTCCCATCACAAACATTCCCTCA
GACAAGCCTGTAACTAAAATCTGTTACCATTCTGATGGCACAGAAGGATCTTAATTCCCATCTCTATACTTCTC
CTTTGGACATGGAAAGAAAAGTTATTGCTGGTGCAAAGATAGATGGCTGAACATCAGGGTGTGGCATTCTTGTTC
CTTTTCCGTTTTTTTTTTTTTTTATTGTTGTTGTTAATTTTATTGCAAAGTTGTATTTCAGCGTACTTGAATTTTTC
TTCTCTCCACTTCTTAGAGGCATTTCAGTTAGCAAAGAGGTTGGAGCAACAACTTTTTTTTTTTTTTTTTGCACAA
TTGTAATTGACAGGTAATGAAGCTATTTGTTAAAAATATTTGCCTTTTTTAAGTAAAAAAGAAAAATCAGAACAGGG
CTATTTGAAGAATTATTTTATACACAGATTCTGCCTTGTTCATAGTATGAGGGTTGAAGACGGAAAAACAATCTA
AGGGTCTCTCATTTTTTTAATTTTGTGTTTGTTCAGTTTGGTTTTTTTTTTTTTTTTTTCGCTGCTAAGAAGCTAAAG
TCATCCATCCTTATTCACGTTGACAGTACCTAGCTGTAATGTTTCACAGAGTGTGCTGCTATTTTATAAACATTT
TTATAATATATATTTTTACTGCTTAAATTCCAAGTCCTGAAGTAGATGGTTGAGATATGAGTTCTTCGTAAGTGA
AAAGCCCTTCCGTAGTTTGTGTTTCTTCTGGTAGCATATTCATGGTTGTTTTTTTTTTTTTCTTTTTTGGTTTTTTGG
TTTTTTTTTTTTTCTCTGATCACATTCTTCAAAGACGGAGTATTCCTTACCTCAGGTTTACTGGACAAAATCAAT
AACTACAAAAGGCAATGATTACGCTTTTTGTTTTTATAATACCTCACAACCGTACAGTTTCTGCTTGGGAGCCCCA
TTCGCATGAGGAATACAGAAGCAGTGTGAGCAGGGCTGACTCCCTCTCAGGTGGAAGGCAGGGCGGTCTCACTCC
CAGGGACCTTTTTGGTTCATGGAGGCCATCGGGCTCCCAGTTAGACCCTGGTATCCTCATCATGATGGAAAAAATA
CATTGAACCAAGGGATCCTCCCTCCCTTCAAGGCAGACGTTTCAGTACAAACATTTATGCGGTAGGCTCAGATGT
CGTAATTTGCACTTAGGTACCAGGTGTGAGGAAACAGACTAAAAAGAATTCACCAGGCTGTTTGGAGATCCTCA
TCTTGGAGCTTTTTCAAAGCGGGGCTTCATCTGCAAAGGGCCCTTTTCATCTGAAGTTTTTCCCTCCGTCTTT

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FIGURE 167B

CCCCCTCCCCTGGCATGGACACCTTGTGTTTAGGATCATCTCTGCAGGTTTCCTAGGTCTGAATCTGCGAGTAGAT
GAACCTGCAGCAAGCAGCGTTTATGGTGCTTCCTTCTCCCTCCTCTGTCTCAAACCTGCGCAGGCAAGCACTATGC
AAGCCCAGGCCCTCTGCTGAGCGGTACTAAACGGTCGGGTTTTCAATCACACTGAATTGGCAGGATAAGAAAAAT
AGGTCAGATAAGTATGGGATGATAGTTGAAGGGAGGTGAAGAGGCTGCTTCTCTACAGAGGTGAAATTCAGATG
AGTCAGTCTCTTGGGAAGTGTGTTTAGAAGGGTTCAGGACTTTGTGAGTTAGCATGACCCTAAAATTCAGGGGA
TTTCTGGTGGGACAATGGGTGGTGAATTTTGAAGTTTTGGAGAGGGAAGTGGAGCAGCCAGCAAGTAAGCTAGCC
AGAGTTTTCTCAAGAGCCAGCTTTGCTCAGCACACTCTCCTGGGCCCCAAGGAGTCCCACGGAATGGGGAAAGTG
GGAACCCTGGAGTTCTTGGGAATCTTGGAGCCTAAAGAGAAACCGAGGTGCAAATTCATTTTCATGGTGAAGTACC
CTTGAGCTTAAACAGAAGCAGCAAATGAAAGAACCGGACAAATAAGGAAGGGCACAAGCCTACCCGACTCTATTT
ACAGTCTGTAACTTTCCACTCTTCTGTAGTCCCGAGGCCCTGGGTCTTCTAGCTTTTTCTCTTTCCCATCCTT
GGGGCCTTGTGTGATGATGGGTGTGGGGCTGCCGATGGGAAAGTCGGGGGTGTTAGGCTTTTTCTGCCTGCTCCT
GCTTAAACACAAGAAGGAATCCTGGATTTTGCCCTCTCCTTAGCTCTTAGTCTCTTTGGTAGGAGTTTTGTTCCA
GAGGAGCTCTCCCCCTTGGATTTGAACTTGCTCTTTTTGTTGTTGTTGTTCTTTCTCTTCTTTTTCTTACCTCCC
ACTAAAGGGGTTCCAAATTATCCTGGTCTTTTTCTACCTTGTTGTGTTTCTATCTCGTCTTTACTTCCATCTGTT
TGTTTTTTTTCTCCATCAGTGGGGGCCGAGTTGTTCCCCCAGCCTGCCAAATTTTGATCCTTCCCCTCTTTTGGCC
AAATCCTAGGGGGAAGAAATCCTAGTATGCCAAAAATATATGCTAAGCATAATTAAACTCCATGCGGGTCCATAA
CAGCCAAGAAGCCTGCAGGAGAAAGCCAAGGGCAGTTCCCTCCGCAGAACACCCCATGCGTGCTGAGAGGCGAGC
TCCTTGAAGAAGGGGCTGTTCTTCCAGGAGGCCTTATTTTGAAGTGCCTCAGGACCCCACTGGAGAGCACAGCAT
GCCTTACTACTGGGTCATCCTTGGTCTATGTGCTCTGTACTGGAGGCTCTGTTCTGCCTCTTATCAGCCAGGTCA
GGGGCACACATGGCTTAAGTGACAAAGCCAGAGGAGAAGACAACCCCTGACAGCATCACGCTGCATCCCATTGCTA
GCAGGATTGGCAACTCTTCAGACGGAGCTGCGCTTCCCTGCAGTCTAGCACCTCTAGGGCCTCTCCAGACTGTGC
CCTGGGAGCTCTGGGACTGAAAGGTTAAGAACATAAGGCAGGATCAGATGACTCTCTCCAAGAGGGCAGGGGAAT
TTTTCTCTCCATGGGCCACAGGGGACAGGGCTGGGAGAAGAAATAGACTTGACCTTATGTCTATGTAATAATTGA
TTGGCTTCTAAGCCAAAAGGATTCCTCTTTGTTTATCTCTGAGACAGTCCAACCTTGAGAATAGCTTTAAAAGGG
AAATTAATGCTGAGATGATAAAGTCCCCTTAAGCCAACAAACCCCTCTGTAGCTATAGAATGAGTGCAGGTTTCTA
TTGGTGTGGACTCAGAGCAATTTACAAGAGCTGTTTCATGCAGCCATCCATTTGTGCAAAATAGGGTAAGAAGATT
CAAGAGGATATTTATTACTTCCTCATAACCATGGCTTTTGATGATTCTGGATTCTAAACAACCCAGAATGGTCA
TTTCAGGCACAACGATACTACATTCTGTGTGTCTGCTTTTAAACTTGGCTGGGCTATCAGACCCTATTCTCGGC
TCAGGTTTTGAGAAGCCATCAGCAAATGTGTACGTGCATGCTGTAGCTGCAGCCTGCATCCCTTCGCCTGCAGCC
TACTTTGGGGAAATAAAGTGCCTTACTGACTGTAGCCATTACAGTATCCAATGTCTTTTGACAGGTGCCTGTCTCT
TGAAAAACAAAGTTTCTATTTTTATTTTTAATTGGTTTAGTTCTTAACTGCTGGCCAACCTTACATCCCCAGCA
AATCATCGGGCCATTGGATTTTTTCCATTATGTTTCATCACCCCTTATATCATGTACCTCAGATCTCTCTCTCTC
CTCTCTCTCAGTTATATAGTTTCTTGTCTTGGACTTTTTTTTTCTTTTCTTTTTTTTTTTTTTGTCTTAAAA
CAAGTGTGATGCCATATCAAGTCCATGTTATTCTCTCACAGTGTACTCTATAAGAGGTGTGGGTGTCTGTTTGGT
CAGGATGTTAGAAAGTGCTGATAAGTAGCATGATCAGTGTATGCGAAAAGGTTTTTAGGAAGTATGGCAAAAATG
TTGTATTGGCTATGATGGTGACATGATATAGTCAGCTGCCTTTTAAAGAGGTCTTATCTGTTTCAGTGTAAAGTGAT
TTAAAAAATAATAACCTGTTTTCTGACTAGTTTAAAGATGGATTTGAAAATGGTTTTGAATGCAATTAGGTTAT
GCTATTTGGACAATAAACTCACCTTGACCT

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FIGURE 168

MELLCHEVDPVRRAVRDRNLLRDDRVLQNLLETIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQKCEEE
VFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWELVVLGKLKWN
LAAVTPHDFIEHILRKLPQQREKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSVGAAICGLQQDEEVSSLTC
DALTELLAKITNTDVDCLKACQEQIEAVLLNSLQQYRQDQRDGSKSEDELDQASTPTDVRDIDL

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FIGURE 169

GTGCATGCCGTGGGTCTGACGGCTTGAGTAGCGCTAGGGAGAATCCCTGCAGGTAATATTTGACTTTTGCTTCAT
ATTAATCTGAGTGGAAAATAAAAGGGCCCTCTTCTCCTCTCGCTTCCCTGCCGGGCAGGCGCCATGGCGGAAGCC
TCGGCGACGGGCGCCTGCGGAGAGGCGATGGCAGCGGCGGAAGGCTCCTCGGGCCCGGCGGGCTTGACTCTGGGC
CGGAGCTTCTCGAACTACCGGCCCTTCGAGCCCCAGGCGTTGGGCCTCAGCCCGAGCTGGCGGCTGACGGGCTTC
TCCGGCATGAAGGGCTGAGGCTGCAAGGTCCCGCAGGAGGCGCTGCTCAAACCTCCTGGCGGGACTGACGCGGCCG
GACGTGCGGCCCCCGCTGGGCGGGGCCTGGTGGGTGGCCAGGAAGAGGCGTCCCAGGAAGCCGGCCTGCCGGCA
GGAGCGGGCCCCAGCCCCACCTTTCCAGCCCTGGGCATCGGGATGGAATCCTGCGTCATCCCCCTGAGGCACGGG
GGCCTGTCACTGGTGCAGACCACGGACTTCTTTTACCCTTGGTAGAAGATCCCTACATGATGGGGCGCATAGCT
TGTGCCAACGTGCTGAGTGACCTCTACGCCATGGGGATTACTGAGTGTGACAACATGTTGATGTTACTCAGCGTC
AGCCAGAGTATGAGTGAGGAGGAACGCGAAAAGGTAACGCCACTCATGGTCAAAGGCTTTCGGGATGCGGCTGAG
GAAGGAGGGACGGCAGTGACCGGTGGGCAAACGGTGGTCAACCCTTGGATTATAATCGGTGGAGTTGCCACTGTA
GTATGCCAACCAATGAGTTCATAATGCCGGACAGCGCCGTCGTTGGGGACGTGCTGGTGTAAACCAACCGTTA
GGAACCCAGGTTGCTGTCAATGCCACCAATGGCTGGATAATCCTGAAAAGATGGAATAAAGTAAAGATGGTGGTC
TCCAGAGAAGAGGTGGAGCTGGCCTATCAGGAAGCCATGTTCAATATGGCTACCCCTCAACAGAACTGCTGCAGGT
TTAATGCACACATTTAATGCCCATGCGGCCACAGATATCACAGGCTTTGGCATTCTAGGACACTCCAGAACCTT
GCAAAACAACAAAGAAATGAAGTGTCCTTTGTTATTCTGCAATAATTGCCAAGATGGCTGCCGTCAGC
AAGGCCAGTGGACGGTTTGGGCTTCTTCAAGGAACCTCAGCTGAAACCTCTGGGGGATTACTGATTTGTCTGCCA
AGAGAACAGGCGGCTCGCTTTTGTCTGAAATCAAATCCTCCAAGTACGGAGAGGGTCACCAAGCGTGGATCGTT
GGCATTGTGGAAGGAAACCGAACGGCCCGGATCATTGACAAGCCGCGAGTTATTGAAGTCCTGCCTCGTGGG
GCCACAGCTGCTGTTCTTGCTCCTGACAGTTCAAATGCCTCCTCTGAGCCTAGCTCGTAGATGAAAGAACAGAA
GTTGTTTGGACCTTAGAGCCATTGTCCACAATCACGGATGGTTCTCAAGAGTTGATTGTAAGAAATTTCCAAAGA
AGGCTGCCTGCATAGTGGTTCCGGCTGCCCTTTCTAGGTGATTGGAATCAGCCCATCTAAAGCAGTCTTTATATG
CATTCCGAGGCCAGAGTAACATTTTGAACCTTTGGGGGGATATTTGTTCACTACTTGGGTAGAAGAGGAGCAAAAA
TACTTCTGTTTTCTCTTGCCAAAGTAAGATGAAGCTATTCCAGGTTGAGGGATTTTTCTTTGCACGGGGTTGATT
AATTTCTGCACAGGGAGTGAGATTATTAAAGTAACACACACACAAAGTAAATTGCAAAATGAAAAAATTAGAAG
CAAATGAGTTTTGGACCAATATTGTTGATAAATCTAAATTGTTAAGAGAGATCTTATAATGCAACATCAAATCT
TTATTCAATTTTACTGAAGTACTGGCTCTTTCTGCTCTGGACAAGAATTGAGCAACTTGTCTGATGACTGGGAA
AGGAGGACCTGCAACCATCTGACTTGGTCTCTGTTAATGACGTCTCTCCCTCTAAACCCCATTAAGGACTGGGAG
AGGCAGAGCAAGCCTCAGAGCCCAGGCCTCAGTGGTCATTAAGATGTTAAGTCTTTTGCGGCAGATTCTGGTGA
TTTGATCAATAAAGAGTAATTTCTTGCTAAATAAATAAAAGAAACCTTGTTGAAAACTAAAAAAAAAAAAAAAA
AAA

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FIGURE 170

MAEASATGACGEAMAAAEGSSGPAGLTLGRSFSNYRPFEPQALGLSPSWRLTGFSGMKGXGCKVPQEALLKLLAG
LTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFFPALGIGMDSCVIPLRHGGLSLVQTTDFFYP LVEDPYMM
GRIACANVLS DLYAMGITECDNMLMLLSVSQSMSEEEEREKVTPLMVKGFRDAAEEGGTAVTGGQTVVNPWIIIGG
VATVVCQPNEFIMPDSAVVGDVLVLT KPLGTQVAVNAHQWLDNPERWNKV KVVVSREEVELAYQEAMFNMATLNR
TAAGLMHTFN AHAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKMAAVSKASGRFGLLQG TSAETSGGLL
ICLPREQAARFCSEIKSSKYGEGHQAWIVGIVEKGNRTARIIDKPRVIEVLPRGATAAVLAPDSSNASSEPS

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FIGURE 171

AAAAAAGGCCGTCAGTTCCTAGCGAGGAGGCGCCGCCGCGCCATTGCCGCTCTCTCGGTGAGCGCAGCCCCGCTCT
CCGGGCCGGGCCCTTCGCGGGGCCACCGGCGCCATGGGCCAGTGCGGCATCACCTCCTCCAAGACCGTGCTGGTCTT
TCTCAACCTCATCTTCTGGGGGCGAGCTGGCATTATATGCTATGTGGGAGCCTATGTCTTCATCACTTATGATGA
CTATGACCACTTCTTTGAAGATGTGTACACGCTCATCCCTGCTGTAGTGATCATAGCTGTAGGAGCCCTGCTTTT
CATCATTGGGCTAATTGGCTGCTGTGCCACAATCCGGGAAAGTCGCTGTGGACTTGCCACGTTTGTATCATCCTT
GCTCTTGGTTTTTGTACAGAAGTTGTTGTAGTGGTTTTTGGGATATGTTTACAGAGCAAAGGTGGAAAATGAGGT
TGATCGCAGCATTCAAGAAAGTGTATAAGACCTACAATGGAACCAACCCTGATGCTGCTAGCCGGGCTATTGATTA
TGTACAGAGACAGCTGCATTGTTGTGGAATTCACAATACTCAGACTGGGAAAATACAGATTGGTTCAAAGAAAC
CAAAAACCAGAGTGTCCTCTTAGCTGCTGCAGAGAGACTGCCAGCAATTGTAATGGCAGCCTGGCCCCACCTTC
CGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTTGTGAAGAAGCTACAAGAAATCATGATGCATGTGATCTGGGC
CGCACTGGCATTTCAGCTATTTCAGCTGCTGGGCATGCTGTGTGCTTGCATCGTGTGTGTCAGAAGGAGTAGAGA
TCCTGCTTACGAGCTCCTCATCACTGGCGGAACCTATGCATAGTTGACAACCTCAAGCCTGAGCTTTTTTGGTCTTG
TTCTGATTTGGAAGGTGAATTGAGCAGGTCTGCTGCTGTTGGCCTCTGGAGTTCATTTAGTTAAGGCACATGTAC
ACTGGTGTGGACAGAGCAGCTTGGCTTTTCATGTGCCCACCTACTTACCTACTACCTGCGACTTTCTTTTTCCT
TGTTCTAGCTGACTCTTCATGCCCCTAAGATTTTAAAGTACGATGGTGAACGTTCTAATTTCAGAACCAATTGCGA
GTCATGTAGTGTGGTAGAATTAAGGAGGACACGAGCCTGCTTCTGTTACCTCCAAGTGGTAACAGGACTGATGC
CGAAATGTCACCAGGTCCTTTCACTCTTCACAGTGGAGAACTCTTGGCCAAAGGTTTTTGGGGGGAGGAGGAGGA
AACCAGCTTTCTGGTTAAGGTTAACACCAGATGGTGCCCTCATTGGTGTCTTTTAAAAAATATTTACTGTAGT
CCAATAAGATAGCAGCTGTACAAAATGACTAAAATAGATTGTAGGATCATATGGCGTATATCTTGGTTCATCTTC
AAAATCAGAGACTGAGCTTTGAAACTAGTGGTTTTTAAATCAAAGTTGGCTTTATAGGAGGAGTATAATGTATGCA
CTACTGTTTTTAAAGAATTAGTGTGAGTGTGTTTTTGTATGAATGAGCCCATTCATGGTAAGTCTTAAGCTTGT
GGAAATAATGTACCCATGTAGACTAGCAAAATAGTATGTAGATGTGATCTCAGTTGTAAATAGAAAAATCTAATT
CAATAAACTCTGTATCAGCCCCC

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FIGURE 172

MGQCGITSSKTVLVFLNLIWFWGAAGILCYVGAYVFITYDDYDHFFEDVYTLIPAVVIIAVGALLFIIGLIGCCAT
IRESRCGLATFVIILLLVFVTEVVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDAASRAIDYVQRQLHCCGI
HNYSDWENTDWFKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKKLQEIMMHVIWAALAFAAIQLL
GMLCACIVLCRRSRDPAYELLITGGTYA

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FIGURE 173

GTTGCCAGGGAGCGGCGCGGGAGCCCTGAGGGGACTGCGGCGGCTGCGCGGAGGAGCGAGGCGCTTGCTGGGGTC
GGGGCTGCGCGACGGCGCAGGGGCTGCGGGGAGCGCCGCGCAGGCCGTGCAGTTCCTAGCGAGGAGGCGCCGCCG
CCATTGCCGCTCTCTCGGTGAGCGCAGCCCCGCTCTCCGGGCCGGGCCTTCGCGGGCCACCGGCGCCATGGGCCA
GTGCGGCATCACCTCCTCCAAGACCGTGCTGGTCTTTCTCAACCTCATCTTCTGGGGGGCAGCTGGCATTTTATG
CTATGTGGGAGCCTATGTCTTCATCACTTATGATGACTATGACCACTTCTTTGAAGATGTGTACACGCTCATCCC
TGCTGTAGTGATCATAGCTGTAGGAGCCCTGCTTTTCATCATTTGGGCTAATTGGCTGCTGTGCCACAATCCGGGA
AAGTCGCTGTGGACTTGCCACGTTTGTATCATCTCTGCTCTTGGTTTTTGTACAGAAGTTGTTGTAGTGGTTTT
GGGATATGTTTACAGAGCAAAGGTGGAAAATGAGGTTGATCGCAGCATTTCAGAAAGTGATAAGACCTACAATGG
AACCAACCCTGATGCTGCTAGCCGGGCTATTGATTATGTACAGAGACAGCTGCATTGTTGTGGAATTCACAATA
CTCAGACTGGGAAAATACAGATTGGTTCAAAGAAACCAAAAACCAGAGTGCCCTCTTAGCTGCTGCAGAGAGAC
TGCCAGCAATTGTAATGGCAGCCTGGCCCCACCCTTCCGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTTGTGAA
GAAGCTACAAGAAATCATGATGCATGTGATCTGGGCCGCACTGGCATTTCAGCTATTTCAGCTGCTGGGCATGCT
GTGTGCTTGCAATCGTGTGTGTGCAGAAGGAGTAGAGATCCTGCTTACGAGCTCCTCATCACTGGCGGAACCTATGC
ATAGTTGACAACTCAAGCCTGAGCTTTTTTGGTCTTGTCTGATTTGGAAGGTGAATTGAGCAGGTCTGCTGCTGT
TGGCCTCTGGAGTTCATTTAGTTAAAGCACATGTACACTGGTGTGGACAGAGCAGCTTGGCTTTTTCATGTGCCC
ACCTACTTACCTACTACCTGCGACTTTCTTTTTCTTGTCTAGCTGACTCTTCATGCCCCTAAGATTTTAAAGTA
CGATGGTGAACGTTCTAATTTCAGAACCAATTGCGAGTCATGTAGTGTGGTAGAATTAAGGAGGACACGAGCCT
GCTTCTGTTACCTCCAAGTGGTAACAGGACTGATGCCGAAATGTCACCAGGTCCTTTTCAGTCTTCACAGTGGAGA
ACTCTTGGCCAAAGGTTTTTGGGGGGAGGAGGAGGAAACCAGCTTTCTGGTTAAGGTTAACACCAGATGGTGCCC
CTCATTGGTGTCTTTTAAAAAATATTTACTGTAGTCCAATAAGATAGCAGCTGTACAAAATGACTAAAATAGAT
TGTAAGGATCATATGGCGTATATCTTGGTTCATCTTCAAAATCAGAGACTGAGCTTTGAACTAGTGGTTTTTAAT
CAAAGTTGGCTTTATAGGAGGAGTATAATGTATGCACTACTGTTTTAAAGAATTAGTGTGAGTGTGTTTTTGTA
TGAATGAGCCCATTCATGGTAAGTCTTAAGCTTGTGGAAATAATGTACCCATGTAGACTAGCAAAATAGTATGT
AGATGTGATCTCAGTTGTAAATAGAAAAATCTAATTCAATAAACTCTGTATCAGCCCCAACATATTATTTTCA
TTATTTGGGGGATATTTTCAGTTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 174

MGQCGITSSKTVLVFLNLIFWGAAGILCYVGAYVFITYDDYDHFFEDVYTLIPAVVIIAVGALLFIIIGLIGCCAT
IRESRCGLATFVIILLLVFVTEVVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDAASRAIDYVQRQLHCCGI
HNYSDWENTDWFKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKKLQEIMMHVIWAALAFAAIQLL
GMLCACIVLCRRSRDPAYELLITGGTYA

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FIGURE 175

CTGACTCTCTGAGGCTCATTGTCAGTTGTTGAAATTGTCCCCGCAGTTTTCAATCATGTCTGAACCAATCAGAG
TCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTCAGTGTGTACAGTATTGGAAATGGATCTGTCTTTGGTA
AAGATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAC
TGCAAGACTGTGCCCTTCCCCTCCTGAAAGATGTCATCGCAACAGATAAAGAAGACGTTGCCTTCAAAGACCTGG
ATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGA
AAATCTTCAAATCCCAGGGTGCAGCCTTAGATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATC
CAGCCAATACCAACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACTC
GTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAAACTTGGTGTGACTGCTAATGATGTAAAGAATGTCA
TTATCTGGGGAAACCATTCCCTCGACTCAGTATCCAGATGTCAACCATGCCAAGGTGAAATTGCAAGGAAAGGAAG
TTGGTGTTTATGAAGCTCTGAAAGATGACAGCTGGCTCAAGGGAGAATTTGTACGACTGTGCAGCAGCGTGGCG
CTGCTGTCTCATCAAGGCTCGAAAATATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACA
TCTGGTTTGGAAACCCAGAGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTTCCCTG
ATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGAAGGTCCTCCCTATTAATG
ATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAAGTACAGAGAGAAAAAGAAAGTGCTTTTGAATTTCTTT
CCTCTGCCTGACTAGACAATGATGTTACTAAATGCTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGT
ACCAAATAATAATAATGCTATACTTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGTA
CAGGTTTGTGAATGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATG

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FIGURE 176

MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMELODCALPLLKDVIATDKED
VAFKDLDVAILVGSMPPREGMERKDLLKANVKIFKSQGAALDKYAKKSVKVI VVGNPANTNCLTASKSAPSIPKE
NFSCLTRLDHNRKAQIALKLGV TANDVKNVI IWGNHSSTQYPDVNHAKVKLQGKEVG VYEALKDDSWLKGEFVT
TVQQRGA AVIKARKLSSAMSAAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGV PDDLLYSFPVVIKNKTWK FV
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA

GGACACGAGGAGAGGATCTCTGGGCGCCGCCAGGTTCTGTGGACAATCACAATGGAATCCAAGGAGGGTCTGTCTCT
GTTCCGGGCTGCTGCTCGTCTTGGCTGTCTTCTGCCATTACAGGTCATAGCCTGCAGTGCTACAACCTGCTCTAACCC
AACTGCTGACTGCAAAACAGCCGTCAATTGTTTCATCTGATTTTGATGCGTGCTCATTACCAAAGCTGGGTACAA
AGTGTATAACAAGTGTGGAAAGTTTGAGCATTGCAATTTCAACGACGTCAACCCCGCTTGAGGGAAAATGAGCT
AACGTACTACTGCTGCAAGAAGGACCTGTGTAACCTTTAACGAACAGCTTGAAAATGGTGGGACATCCTTATCAGA
GAAAACAGTTCTTCTGCTGGTGACTCCATTTCTGGCAGCAGCCTGGAGCCTTCATCCCTAAGTCAACACCAGGAG
AGCTTCTCCCAAACCTCCCGTTTCTGCGTAGTCCGCTTTCTCTTGCTGCCACATTCTAAAGGCTTGATATTTTCC
AAATGGATCCTGTTGGGAAAGAATAAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTG
AAGACCAGTCTGTTTGCAGGGAAGCCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAACATA
GATTGCATGCTTCCTCCTTTGCTCTTGGGAAGACCAGCTTTGCAGTGACAGCTTGAGTGGGTTCTCTGCAGCCCT
CAGATTATTTTTTCTCTGGCTCCTTGATGTAGTCAGTTAGCATCATTAGTACATCTTTGGAGGGTGGGGCAGGA
GTATATGAGCATCCTCTCTCACATGGAACGCTTTTCATAAACTTCAGGGATCCCGTGTTGCCATGGAGGCATGCCA
AATGTTCCATATGTGGGTGTGAGTCAGGACAACAAGATCCTTAATGCAGAGCTAGAGGACTTCTGGCAGGGAAG
TGGGGAAGTGTTCAGATAGCAGGGCATGAAAACCTTAGAGAGGTACAAGTGGCTGAAAATCGAGTTTTTCTCTG
TCTTTAAATTTTATATGGGCTTTGTATCTTCCACTGGAAAAAGTGTAAATAGCATAACATCAATGGTGTGTTAAAGC
TATTTCTTGCCTTTTTTTTTATTGGAATGGTAGGATATCTTGGCTTTGCCACACACAGTTACAGAGTGAACACTC
TACTACATGTGACTGGCAGTATTAAGTGTGCTTATTTTAAATGTTACTGGTAGAAAGGCAGTTACAGGTATGTGTG
TATATAGTATGAATGCAGTGGGGACACCCTTTGTGGTTACAGTTTGAGACTTCCAAAGGTCATCCTTAATAACAA
CAGATCTGCAGGGGTATGTTTTACCATCTGCATCCAGCCTCCTGCTAACTCCTAGCTGACTCAGCATAGATTGTA
TAAAATACCTTTGTAACGGCTCTTAGACACTCACAGATGTTTGAGGCTTTTACAAGCTCTTCTAAAAAATGATA
CACACCTTTTACAAGGGCAAACCTTTTTCTTTTTCCCTGTGTATTCTAGTGAATGAATCTCAAGATTAGTAGACC
TAATGACATTTGTATTTTATGATCTTGGCTGTATTTAATGGCATAGGCTGACTTTTGAGATGGAGGAATTTCTT
GATTAATGTTGAAAAAAAACCTTTGATTATACTCTGTTGGACAAACCGAGTGCAATGAATGATGCTTTTCTGAAA
ATGAAATATAACAAGTGGGTGAATGTGGTTATGGCCGAAAAAGGATATGCAGTATGCTTAATGGTAGCAACTGAAA
GAAGACATCCTGAGCAGTGCCAGCTTTCTTCTGTTGATGCCGTTCCCTGAACATAGGAAAAATAGAACTTGCTTA
TCAAACTTAAAAA

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FIGURE 178

MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAGLQVYNKCWKFEHCNFNDV
TTRLRENELTYCCKKDLNCFNEQLENGGTSLSSEKTVLLLVTPFLAAAWSLHP

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FIGURE 179

GGTACAGCTGCGCGTCTGCGGGAATAGGTGCAGCGGGCCCTTGGCGGGGGACTCTGAGGGAGGAGCTGGGGACGG
CGACCCTAGGAGAGTTCTTTGGGGTGACTTTCAAGATGGACTCTACTCTAACAGCAAGTGAAATCCGGCAGCGAT
TTATAGATTTCTTCAAGAGGAACGAGCATACGTATGTTCACTCGTCTGCCACCATCCCATTGGATGACCCCACTT
TGCTCTTTGCCAATGCAGGCATGAACCAGTTTAAACCCATTTTCTGTAACACAATTGACCCATCTCACCCCATGG
CAAAGCTGAGCAGAGCTGCCAATACCCAGAAGTGCATCCGGGCTGGGGGCAAACAAAATGACCTGGACGATGTGG
GCAAGGATGTCTATCATCACACCTTCTTCGAGATGCTGGGCTCTTGGTCTTTTGGAGATTACTTTAAGGAATTGG
CATGTAAGATGGCTCTGGAACCTCCTCACCCAAGAGTTTGGCATTCCCATTGAAAGACTTTATGTTACTTACTTTG
GCGGGGATGAAGCAGCTGGCTTAGAAGCAGATCTGGAATGCAAACAGATCTGGCAAATTTGGGGCTGGATGACA
CCAAAATCCTCCAGGCAACATGAAGGATAACTTCTGGGAGATGGGTGACACGGGGCCCCTGTGGTCTTGCAGTG
AGATCCACTACGACCGGATTGGTGGTCGGGACGCCGCACATCTTGTCACCAGGACGACCCTAATGTGCTGGAGA
TCTGGAACCTTGTGTTTCATCCAGTATAACAGGGAAGCTGATGGCATTCTGAAACCTCTTCCCAAGAAAAGCATTG
ACACAGGGATGGGCCTGGAACGACTGGTATCTGTGCTGCAGAATAAGATGTCCAACATGACACTGACCTTTTTG
TCCCTTACTTTGAAGCCATTGAGAAGGGCACAGGTGCCCGACCATACTGCGGAAAGTTGGTGTGAGGATGCCG
ATGGGATTGACATGGCCTACCGGGTGCTGGCTGACCATGCTCGGACCATCACTGTGGCACTGGCTGATGGTGGCC
GGCCTGACAACACAGGGCGTGGATAIGTGTGAGACGGATTCTCCGCCGAGCTGTCCGATACGCCCATGAAAAGC
TCAATGCCAGCAGGGGCTTCTTTGCTACGTTAGTGATGTTGTCTGTCAGTCCCTGGGAGATGCATTTCTGAGC
TGAAGAAGGACCCAGACATGGTGAAGGACATCATTAAATGAAGAAGAGGTGCAGTTTCTCAAGACTCTCAGCAGAG
GGCGTCGCATCCTGGACAGGAAAATTGAGAGCCTGGGAGACAGCAAGACCATTCCCGGAGACACTGCTTGGCTCC
TCTATGACACCTATGGGTTTCCAGTGGATCTGACTGGACTGATTGCTGAAGAGAAGGGCCTGGTGGTAGACATGG
ATGGCTTTGAAGAGGAGAGGAACTGGCCAGCTGAAATCAGAGGCAAGGGAGCTGGTGGGGAAGACCTCATT
TGCTGGACATTTACGCTATCGAAGAGCTCCGGGCACGGGGTCTGGAGGTCACAGATGATTCCCCAAAGTACAATT
ACCATTTGGACTCCAGTGGTAGCTATGTATTTGAGAACACAGTGGCTACGGTGATGGCTCTGCGCAGGGAGAAGA
TGTTTCGTGGAAGAGGTGTCCACAGGCCAGGAGTGTGGAGTGGTGTGTCGACAAGACCTGTTTCTATGCTGAGCAAG
GAGGCCAGATCTATGACGAAGGCTACCTGGTGAAGGTGGATGACAGCAGTGAAGATAAAACAGAGTTTACAGTGA
AGAATGCTCAGGTCCGAGGAGGGTATGTGCTACACATTGGAACCATCTACGGTGACCTGAAAGTGGGGGATCAGG
TCTGGCTGTTTATGTATGATGAGCCCCGACGAAGACCCATCATGAGCAACCACACAGCTACGCACATTCTGAACCTCG
CCCTGCGCTCAGTGCTTGGGGAAGCTGACCAGAAAGGCTCATTGGTTGCTCCTGACCGCCTCAGATTTGACTTTA
CTGCCAAGGGAGCCATGTCCACCCAACAGATCAAGAAGGCTGAAGAGATTGCTAATGAGATGATTGAGGCAGCCA
AGGCCGTCTATACCCAGGATTGCCCCCTGGCAGCAGCGAAAGCCATCCAGGGCCTACGGGCTGTGTTTGATGAGA
CCTATCCTGACCCCTGTGCGAGTCTCTCCATTGGGGTCCCGGTGTCCGAGTTGCTGGATGACCCCTCTGGGCCTG
CTGGCTCCCTGACTTCTGTTGAGTTCTGTGGGGGAACGCACCTGCGGAACCTCGAGTCATGCAGGAGCTTTTGTGA
TCGTGACGGAAGAAGCCATTGCCAAGGGTATCCGGAGGATTGTGGCTGTACAGGTGCCGAGGCCCAGAAGGCC
TCAGGAAAAGCAGAGAGCTTGAAGAAATGTCTCTCTGTCTATGGAAGCCAAAGTGAAGGCTCAGACTGCTCCAAACA
AGGATGTGCAGAGGGAGATCGCTGACCTTGGAGAGGCCCTGGCCACTGCAGTCATCCCCAGTGGCAGAAGGATG
AATTGCGGGAGACTCTCAAATCCCTAAAGAAGGTGATGGATGACTTGGACCGAGCCAGCAAAGCCGATGTCCAGA
AACGAGTGTAGAGAAGACGAAGCAGTTTCATCGACAGCAACCCCAACCAGCCTCTTGTCTATCCTGGAGATGGAGA
GCGGCGCCTCAGCCAAGGCCCTGAATGAAGCCTTGAAGCTCTTCAAGATGCACTCCCTCAGACTTCTGCCATGC
TCTTACAGGTGGACAATGAGGCTGGCAAGATCACGTGCCTGTGTCAAGTCCCCCAGAATGCAGCCAATCGGGGCT
TAAAAGCCAGCGAGTGGGTGCAGCAGGTGTGAGGCTTGATGGACGGTAAAGGTGGTGGCAAGGATGTGTCTGCAC
AGGCCACAGGCAAGAAGCTTGGCTGCCTGCAGGAGGCGCTGCAGCTGGCCACTTCCCTTCGCCCAGCTGCGCCTCG
GGGATGTAAAGAACTGAGTGGGGAAGGAGGAGGCTCCCACTGGATCCATCCGTCCAGCCAAGAGCTCTTTCATCTG
CTACAAGAACATTTGAATCTTGGGACCTTTAAAGAGCCCCCTCCTAACCCAGCAGTAACTGGAACACACTTGGGAG
CAGTCTATGTCTCAGTGCCCTTAAATTTCTGCCCTGAGCCCTCCACGTGAGTCCATCGGTCTAGAACCCTA
ACCCCGCATTGCTGTTGATCGTCACGCTCGCATCTATAGATAACGGCTCTCCAGACCTGAGCTTTCCGCGTCAGC
AAGTAGGAATCGTTTTTGTGTCAGAGAATAAAAGGACCACGTGC

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FIGURE 180

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKC
IRAGGKQNDLDDVGKDVYHHTFFEMLGSWSF GDYFKELACKMALELLTQEFGIPIERLYVTYFGGDEAAGLEADL
ECKQIWQNLGLDDTKILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRE
ADGILKPLPKKSIDTGMGLERLVSVLQNKMSNYD TDLFVPYFEAIQKGTGARPYTGKVGAEADADGIDMAYRVLAD
HARTITVALADGGRPDNTGRGYVLRRLRRAVRYAHEKLNASRGFFATLVDVVVQSLGDAFPELKKDPDMVKDII
NEEEVQFLKTL SRGRRILDRKIQSLGDSKTIPGDTAWLLYD TYGFPVDLTGLIAEEKGLVVDMDGFEEERKLAQL
KSQKGAGGEDLIMLDIYAIEELRARGLEVTD DSPKYNHYLDSSGSYVFENTVATVMALRREKMFVEEVSTGQEC
GVVLDKTCFYAEQGGQIYDEGYLVKVDDSS EDKTEFTVKNAQVRGGYVLHIGTIYGD LKVG DQVWLFIDEPRRRP
IMSNHTATHILNFALRSVLGEADQKGS LVAPDRLRF DFTAKGAMSTQQIKKAE EIANEMIEAAKAVYTQDCPLAA
AKAIQGLRAVFDETYPD PVRVVSIGVPVSELLDDPSGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIAKGIR
RIVAVTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDELRETLKSLKKV
MDDLDRASKADVQKRVLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFTVDNEAGKIT
CLCQVPQNAANRGLKASEWVQQVSG LMDGKGGGKDVSAQATGKNVGC LQEALQLATSFAQLRLGDVKN

GACCAGCCTACAGCCGCTGCATCTGTATCCAGCGCCAGGTCCCGCCAGTCCCAGCTGCGCGCGCCCCCAGTCC
CGCACCCGTTTCGGCCAGGCTAAGTTAGCCCTCACCATGCCGGTCAAAGGAGGCACCAAGTGCATCAAATACCTG
CTGTTTCGGATTTAACTTTCATCTTCTGGCTTGCCGGGATTGCTGTCTTGCATTGGACTATGGCTCCGATTTCGAC
TCTCAGACCAAGAGCATCTTCGAGCAAGAACTAATAATAATTCAGCTTCTACACAGGAGTCTATATTCTG
ATCGGAGCCGGCGCCCTCATGATGCTGGTGGGCTTCTTGGGCTGCTGCGGGGCTGTGCAGGAGTCCCAGTGCATG
CTGGGACTGTTCTTCGGCTTCTCTTGGTGATATTCGCCATTGAAATAGCTGCGGCCATCTGGGGATATTCCCAC
AAGGATGAGGTGATTAAGGAAGTCCAGGAGTTTTACAAGGACACCTACAACAAGCTGAAAACCAAGGATGAGCCC
CAGCGGGAAACGCTGAAAGCCATCCACTATGCGTTGAACTGCTGTGGTTTGGCTGGGGGCGTGGAACAGTTTTATC
TCAGACATCTGCCCCAAGAAGGACGTA CTGAAACCTTCACCGTGAAGTCCTGTCCTGATGCCATCAAAGAGGTC
TTCGACAATAAATTCACATCATCGGCGCAGTGGGCATCGGCATTGCCGTGGTTCATGATATTTGGCATGATCTTC
AGTATGATCTTGTGCTGTGCTATCCGCAGGAACCGCGAGATGGTCTAGAGTACAGCTTACATCCCTGAGCAGGAAA
GTTTACCCATGAAGATTGGTGGGATTTTTTGTTTGTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGT
CCACTAATTTTAGTATTCACTCTGCATTGCTAGATAAAAGCTGAAGTTACTTTATGTTTGTCTTTTAATGCTTCA
TTCAATATTGACATTTGTAGTTGAGCGGGGGGTTTGGTTTGCTTTGGTTTATATTTTTTCAGTTGTTTGT
CTTGTTATATTAAGCAGAAATCCTGCAATGAAAGGTACTATATTTGCTAGACTCTAGACAAGATATTGTACATAA
AAGAATTTTTTTGTCTTTAAATAGATACAAATGTCTATCAACTTTAATCAAGTTGTAACCTTATATTGAAGACAAT
TTGATACATAATAAAAAATTATGACAATGTCAAAAAAAAAAAAAAA

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FIGURE 182

MPVKGGTKCIKYLLEFGFNFI FWLAGIAVLAIGLWLRFD SQTKSIFEQETNNNNSSFYTG VYILIGAGALMMLVGF
LGCCGAVQESQCMLGLFFGFL LVIFAIEIAAAIWGYSHKDEV IKEVQEFYKDTYNKLTKDE PQRETLKAIHYAL
NCCGLAGGVEQFISD ICPKKDVLETFTVKSCPDAI KEVFDNKFHIIGAVGIGI AVVMIFGMIFSMILCCAIRNR
EMV

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FIGURE 183

CTTGCTCCGAGAGGGAGTCCTCGCGGACGTCAGCCAAGATTCCAGAAATGACTATCTTGACTTACCCCTTTAAAAA
TCTTCCCCTGTCATCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCTCCCAGCTACGAGCTGC
CCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCAATATAAGGAATGTTGTGGTGGTGGATGGTGT
TCGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTAC
GGGTTTGTGTCATCGGACCAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGT
GAAAACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGCTCACACTGTCAC
CATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGCCAGTGTGATGTGAT
CGTGGCAGGTGGTGTGAGTTGATGTCCGATGTCCCTATTTCGTCACCTCAAGGAAAATGAGAAAATGATGCTTGA
TCTCAATAAGGCCAAATCTATGGGCCAGCGACTGTCTTAAATCTCTAAATTCCGATTTAATTTCTAGCACCTGA
GCTCCCTGCGGTTTCTGAGTTCTCCACCAGTGAGACCATGGGCCACTCTGCAGACCGACTGGCCGCTGCCTTTGC
TGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTCACAGTCTAGCCAAGAAGGCACAGGATGAAGGACT
CCTTTCTGATGTGGTACCCTTCAAAGTACCAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCCTC
ACTGGAGCAGATGGCCAAACTAAAACCTGCATTTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATTCCTCTTT
CTTGACTGATGGTGCATCTGCAATGTAAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTATAAGCCGAAGGC
ATATTTGAGGGATTTTATGTATGTGTCTCAGGATCCAAAAGATCAACTATTACTTGGACCAACATATGCTACTCC
AAAAGTTCTAGAAAAGGCAGGATTGACCATGAATGATATTGATGCTTTTGAATTTTCATGAAGCTTTCTCGGGTCA
GATTTTGGCAAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAAATACATGGGTAGAAAAACCAAGGTTGG
ATTGCCTCCTTTGGAGAAAGTTTAAATAACITGGGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTG
CAGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAAAGAAGGAGGCCAGTATGGCTTAGTGGCTGCGTGTGCAGC
TGGAGGGCAGGGCCATGCTATGATAGTGAAGCTTATCCAAAATTAATAGATCCAGAAGAAGTGACCTGAAGTTTC
TGTGCAACACTCACACTAGGCAATGCCATTTCAATGCATTACTAAATGACATTTGTAGTTCTAGCTCCTCTTAG
GAAAACAGTTCTTGTGGCCTTCTATTAAATAGTTTGCACCTTAAGCCTTGCCAGTGTTCTGAGCTTTTCAATAATC
AGTTTACTGCTCTTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGAGATGTGTGGGTGGTTGTTTTTGGTCTC
TGTTGTCATAAAGACTAAATGAGGGTTTGCAGTTGGGAAAGAGGTCAACTGAGATTTGGAAATCATCTTTGTAA
TATTTGCAAATTATACTTGTTCCTTATCTGTGTCTTAAAGATGTGTTCTCTATAAAAATACAAACCAACGTGCCTAA
TTAATTATGGAAAAATAATTCAGAATCTAAACACCACTGAAAACCTATAAAAAATGTTTAGATACATAAAATATGG
TGGTCAGCGTTAATAAAGTGGAGAAATATTGGAAAAA

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FIGURE 184

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLM
PHDLARAALTGLLHRTSVPKEVVDYIIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVG
LIASGQCDVIVAGGVELMSDVPIRHSRKMRLMLDLNKAQDEGLLSKVFPKDTVTKDNGIRPSSLEQMAKLKPAFIKPY
SADRLAAAFVSRLEQDEYALRSHSLAKKAQDEGLLSKVFPKDTVTKDNGIRPSSLEQMAKLKPAFIKPY
GTVTAANSSFLTGDASAMLMMAEEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDA
FEFHEAFSGQILANFKAMSDWFAENYMGRTKVGLPPELKFNNWGGSLSLGHFPFGATGCRLVMAAANRLRKEGG
QYGLVAACAAGGQGHAMIVEAYPK

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FIGURE 185

GCTTAGTGTAACCAGCGGCGTATATTTTTTAGGCGCCTTTTCGAAAACCTAGTAGTTAATATTCATTTGTTTAAA
TCTTATTTTATTTTTAAGCTCAAACCTGCTTAAGAATACCTTAATTCCTTAAAGTGAAATAATTTTTTGCAAAGGG
GTTTCCTCGATTTGGAGCTTTTTTTTTCTTCCACCGTCATTTCTAACTCTTAAAACCAACTCAGTTCCATCATGG
TGATGTTCAAGAAGATCAAGTCTTTTGAGGTGGTCTTTAACGACCCTGAAAAGGTGTACGGCAGTGGCGAGAGGG
TGGCTGGCCGGGTGATAGTGGAGGTGTGTGAAGTTACTCGTGTCAAAGCCGTTAGGATCCTGGCTTGCGGAGTGG
CTAAAGTGCTTTGGATGCAGGGATCCCAGCAGTGCAAACAGACTTCGGAGTACCTGCGCTATGAAGACACGCTTC
TTCTGGAAGACCAGCCAACAGGTGAGAATGAGATGGTGATCATGAGACCTGGAAACAAATATGAGTACAAGTTCG
GCTTTGAGCTTCCTCAGGGGCCTCTGGGAACATCCTTCAAAGGAAAATATGGGTGTGTAGACTACTGGGTGAAGG
CTTTTCTTGACCGCCCGAGCCAGCCAACCTCAAGAGACAAAGAAAAAATTTGAAGTAGTGGATCTGGTGGATGTCA
ATACCCCTGATTTAATGGCACCTGTGTCTGTCTAAAAAAGAAAAAGAAAGTTTCTGTCATGTTTCTTCTGATGGGC
GGGTGTCTGTCTCTGCTCGAATTGACAGAAAAGGATTCTGTGAAGGTGATGAGATTTCCATCCATGCTGACTTTG
AGAATACATGTTCCCGAATTGTGGTCCCCAAAGCTGCCATTGTGGCCCGCCACACTTACCTTGCCAATGGCCAGA
CCAAGGTGCTGACTCAGAAGTTGTCATCAGTCAGAGGCAATCATATTATCTCAGGGACATGCGCATCATGGCGTG
GCAAGAGCCTTCGGGTTTCAAGATCAGGCCTTCTATCCTGGGCTGCAACATCCTTCGAGTTGAATATTCCTTAC
TGATCTATGTTAGCGTTCCTGGATCCAAGAAGGTTCATCCTTGACCTGCCCTGGTAATTGGCAGCAGATCAGGTC
TAAGCAGCAGAACATCCAGCATGGCCAGCCGAACCAGCTCTGAGATGAGTTGGGTAGATCTGAACATCCCTGATA
CCCCAGAAGCTCCTCCCTGCTATATGGATGTCTTCTGAAAGATCACCGATTGGAGAGCCCAACAACCTCCTCTGC
TAGATGACATGGATGGCTCTCAAGACAGCCCTATCTTTATGTATGCCCTGAGTTCAAGTTTATGCCACCACCGA
CTTATACTGAGGTGGATCCCTGCATCCTCAACAACAATGTGCAGTTGAGCATGTGGAAGAAAAGAAGCAGCTTTAC
CTACTTGTCTCTTTTTGTCTCTCTTCTGACACTCACTTTTTTCAGAGACTCAACAGTCTCGTCAATGGAGTGTG
GGTCCACCTTAGCCTCTGACTTCTTAATGTAGGAGGTGGTCAGCAGGCAATCTCCTGGGCCTTAAAGGATGCGGA
CTCATCCTCAGCCAGCGCCCATGTTGTGATACAGGGGTGTTTGTGGATGGGTTTAAAAATAACTAGAAAACTC
AGGCCCATCCATTTTCTCAGATCTCCTTGAAAATTGAGGCCTTTTCGATAGTTTCGGGTGAGGTAAAAATGGCCT
CCTGGCGTAAGCTTTTCAAGGTTTTTGGAGGCTTTTTGTAAATTGTGATAGGAACCTTTGGACCTTGAACCTTACG
TATCATGTGGAGAAGAGCCAATTTAACAACTAGGAAGATGAAAAGGGAAATTGTGGCCAAAACCTTTGGGAAAAG
GAGGTTCTTAAAATCAGTGTTTCCCTTTGTGCACTTGTAGAAAAAAGAAAAACCTTCTAGAGCTGATTTGAT
GGACAATGGAGAGAGCTTTCCCTGTGATTATAAAAAAGGAAGCTAGCTGCTCTACGGTCATCTTTGCTTAGAGTA
TACTTTAACCTGGCTTTTAAAGCAGTAGTAACCTGCCCCACCAAAGGTCTTAAAGCCATTTTGGAGCCTATTGC
ACTGTGTTCTCCTACTGCAAATATTTTCATATGGGAGGATGGTTTTCTCTTCATGTAAGTCCTTGGAATTGATTC
TAAGGTGATGTTCTTAGCACTTTAATTCCTGTCAAATTTTTGTTCTCCCTTCTGCCATCTTAAATGTAAGCTG
AAACTGGTCTACTGTGTCTCTAGGGTTAAGCCAAAAGACAAAAAAATTTTACTACTTTTGAGATTGCCCCAATG
TACAGAAATTATATAATTCTAACGCTTAAATCATGTGAAAGGGTTGCTGCTGTCAGCCTTGCCCACTGTGACTTCA
AACCAAGGAGGAACTCTTGATCAAGATGCCCAACCCTGTGATCAGAACCTCCAATACTGCCATGAGAACTAG
AGGGCAGGTGTTTCAAAAAGCCCTTTGAACCCCTTCTGCCCCTGTGTTAGGAGATAGGGATATTGGCCCCCTCAC
TGCAGCTGCCAGCACTTGGTCAGTCACTCTCAGCCATAGCACTTTGTTCAGTGTCTGTGTCAGAGCACTGAGCT
CCACCCTTTTCTGAGAGTTATTACAGCCAGAAAGTGTGGGCTGAAGATGGTTGGTTTTCATGTGGGGGTATTATGT
ACCC

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FIGURE 186

MVMFKKIKSFEVVFNDPEKVYGSGERVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTSEYLRVEDT
LLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFLDRPSQPTQETKKNFEVVDLVD
VNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGDEISIHADFENTCSRIVVPKAAIVARHTYLANG
QTKVLTQKLSSVRGNHIIISGTCASWRGKSLRVQKIRPSILGCNLRVEYSLLIYVSVPGSKKVILDPLVIGSRS
GLSSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPEDHRLESPTTPLLDDMDGSQDSPIFMYAPEFKFMPP
PTYTEVDPCILNNNVQ

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FIGURE 187

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA
CTTAACCTCATTCTCTTTTCAGAGCAITTAGCCTTCATATGCCCTTCCCTGCATGCTTCCCCCAGGCCGTCAAGA
CTTGAGTTCTGCCTCGCTTCCCGGCGCGGTGCGAGCCCTCAGCCCACCTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCCCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAACTGCCTTCACCAGAAAATGTGG
GGAGACAGCTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTC
TTTTCTCAAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTTACCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTTATTGACAATGATTCTGGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAAGAAAGTAACTCCTGAAGGGCTCCAAATGGTAAAGAAAAAATTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA
AAAAATCAAGAAGGCCTGTGGAATTTTGGCATTCCATGTGAACTTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGATGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCCCTCACACCAGACTG
GGGAGTTTCAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTTAAGCAACCATTGGTATGGAGCAAACCTGCGAGCAAGCATT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTAATAAGAAAGAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAAC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTATCATTCTCTTACTTTATCCTTTTTCTCTTA
AGTATTGGTGGTCACTACTATTGAGTTTCTTCTTAACACTGATTAAATGATCTTAACTCCCTCAGCTAAAACCTG
GCATTACTGACTCCAGCTATATTTCTCCAGACTTGCATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTCTG
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCACTGCTGCTTCCCTCCTGGGCTCAAGCAGTTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGCAGCACCATGCCGAGCTAATTTTATTTTTTGTAGAGATGAGCT
CTCACTATGTCACCCAGGTTCTGCTCAAACCTCTGAACCCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG
GGCACTCATGAAAAACAGAATGCTCCCACTTTATTCATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTATCATTGATGTTTTTCTCACGTTTCACATCTCACTCATACCAAGTCATGTTGG
TGTTAATTTCTGATTAAACCCTGAATTTACCGTCTTCTCATCTCTGTACAAAAGCCTCAAGTGAGGGTCAAATT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGCACCACAGACTTCTTTGAAAATATACATGCTGTTGACCCTCTCTGTAGAAAACCGCACA
CATAAACTTACCAACAGATTTTATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTCAGGAGTTTGAAGACCAGCCTGGCCAACATGGTGAAAACCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTGGATCATGCCACTGCACTCCAACCTGGGCAGCAGAGCAAGACTCTGTCTCAAAAGGGGAA
AAAAAAAATTGCTGATGTGACCCATGAAGGGAACCTCATTTTCTCGTAATTTTGGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCACGTTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTTCGCTGTCCA
TGAAACCTTCTGTAACCACAGTGAAGTACAAGTAGTTCTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTGAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAAAGGACTTAGAA
GATTAAAAA

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FIGURE 188

MATAEVLNIGKKLYEGKTKEVYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQEAGIKT
AFTRKCGETAFIAPQCEMPIEWVCRRITGSFLKRNPGVKEGYKFYPPKVELFFKDDANNDPQWSEEQLIAAKF
CFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVIDNDSWRLWPSGDRSQQ
KDKQSYRDLKEVTPEGLQMVKKNF EWVAERVELLLKSESQCRVVVLMGSTSDLGHCEKIKKACGNFGIPCEL RVT
SAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTAYFPVISCPPLTPDWGVQDVWSSLRLPSGLGCS
TVLSPEGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKIRECNL

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FIGURE 189

CGGGGAGGACGGTCTGCATACTCGCTGCCCGCCGGCTCCCTCCCCCGCGTCCCTGCGACCGCCGCGGCGAAGATG

GCCTCAGGAGTGCAAGTAGCTGATGAAGTATGTCGCATTTTTTATGACATGAAAGTTCGTAAATGCTCCACACCA
GAAGAAATCAAGAAAAGAAAGAAGGCTGTCATTTTTTGTCTCAGTGCAGACAAAAAGTGCATCATTGTAGAAGAA
GGCAAAGAGATCTTGTTGGAGATGTTGGTGTAAACCATAACTGATCCTTTCAAGCATTTTGTGGGAATGCTTCCT
GAAAAAGATTGTCGCTATGCTTTGTATGATGCAAGCTTTGAAACAAAAGAATCCAGAAAAGAAGAGTTGATGTTT
TTTTTGTGGGCACCAGAACTAGCACCTCTGAAAAGTAAATGATCTATGCAAGCTCCAAGGATGCAATTA AAAAG
AAATTTCAAGGCATAAAACATGAATGTCAAGCAAATGGACCAGAAGATCTCAATCGGGCTTGTATTGCTGAAAAG
TTAGGTGGATCCTTAATTGTAGCCTTTGAAGGATGCCCTGTGTAGATTATTTCAGTGCCACAAATTGAAAGCTTCC
ATGTTTAATGTTATCCTCTTGCTATATAAATAAAGCAAATATATTTAGGCCAGGGTCTCACTGAGGGGGAGCTGT
CTTGTCATCTTTTAGAGTAACTATTCTATAAACATATGCAACAGCCCTAAATAAATCTAAAGTCTAAAGTTTT
ATTGATGTGAAATTAAATTCTTATTGGCCAAATGCCTGTTTTGATGAGTTGATTTATAAAGATTTTTGTAAAGCT
CAGGATTTTAAATTACACAGTTCACAAACAGTAAAGGCCATGTGAAGAGAATTATTACATCTTTATTAACCTCAG
CATTTACTTTGTTTCTTTTGCTTAGGAAATTGCTCATAATCTGGTTATAATTTTGGTCCAAATTCTTTATTCTTC
CTTGAGCTAAGCAGAATAATGGAATATAATATGTCTTCATAATATAACAACACTAATACACTAATAGTAAGATTA
AGTTAGGCAGTCTTCTACCAAATGTGTAATGGAGATTGCCTCAAAATTGTGTCCACATAATCCACGCTCATCTTG
CAAAGCGCTATTTTCAGGCACATCATTGGAATACAGGAAGTAGCCCTGCACCTGCCAGTGAGCTCGCCATTCACTG
ATTGGAAGAGTGACCTGGCATCTTGGAATCATTGTGTGTCTTCAGGAGAATGTGCAGTGTCTTGTAACAACATAA
TTAATAATGCAAATTAGGGCTACATTGTAATCTGCTTTGTTAATGAAAATGATAAAACAGAATATTGACAAGCTA
GGACACCTGTGGTATCTTTAATTGTATCTCCTTCAGAAGTTTGCTTCTTATGGTATAATAAAGTATGGAAGAATA
AAAAAAAAAAAAAA

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FIGURE 190

MASGVQVADEVCRIFYDMKVRKCSTPEEIKKRKKAVIFCLSADKKCIIVEEGKEILVGDVGVTITDPFKHFVGML
PEKDCRYALYDASFETKESRKEELMFFLWAPELAPLKSKMIYASSKDAIKKKFQGIKHECQANGPEDLNRACIAE
KLGGSLLIVAFEGCPV

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FIGURE 191

GGCACGAGGGTGCAGAGGCAACCAAAAAGGAACCCACACCTCCCTCCAGGGCCCCGGGGCGCTGTCAGACGGGGCA
GCAACCAGGAGATTCCCTGGGCCTGCAGGAAGCCCTTCCGCGGACCGAAAGATTGTTCCCCATTTTGGAGATGAA
GAAACTGAGACTCAAAGCAGCTGAGTGACCTTCCCAAGGACACACACTGAACTGGGCGGTGATCAGGATCTGAAT
GCACAGGGCGGGTGTTTCAGTGATTGTTTACTACGTTGAACGTGACCTCCAGGAAAGCAGTTCTGGCCGAGATCCC
CTGACAACGCAAAGCAAGAAGTAACGTGGAAGGAGGCTCCCCAAGCTGGCTGGCCATTTTGTGCTGTGTGTGGA
GGTGCTGTCAGTGGCATGCCCCAAACCCAAAGCTGGAAGAGGAATAAATTACAAGTGGTCAAGGTTGCTGCTGTGT
GTGGAGGTGCTGTCAGTGGCATGCCCCAAACCCAAAGCTGGAAGAGGAATAAATTACAAGTGGTCAAGGTTGCATC
CTTTTGAGCCCAGGACCTGCTTGTAAAGCCGAGAGGGTTCTCTGGCCCTAATCTAGCCAAGCACCATGGAGAGAAT
CAGTGCCTTCTTCAGCTCTATCTGGGACACCATCTTGACCAAACACCAAGAAGGCATCTACAACACCATCTGCCT
GGGAGTCTCCTGGGCCTGCCACTCTTGGTGATCATCACACTCCTCTTCATCTGTTGCCATTGCTGCTGGAGCCC
ACCAGGCAAGAGGGGGCCAGCAGCCAGAGAAGAACAAGAAGAAAAAGAAGAAGAAGAAGAAGGATGAAGAAGA
CCTCTGGATCTCTGCTCAACCCAAGCTTCTCCAGATGGAGAAGAGACCATCACTGCCTGTTTAGTTAGGCAGGAA
GCAGAGGTGTTTCTTTCTGGGGCTAAGCCTCCTTCTGACCACACACAGACATTTTCAGGAACCCCTGAAATAATG
CACTATGTCCATGTCCACAGAGTAACTACTCAACCAAGGAACAAACCTCAGACTAAGTGTCCAGTGGAGGGAAG
TCCCAGGGACCACGTGGACAATTCTTGGATACTGTCTTGGCAGCTATGTGTCCAATAGCAATGCTCCTTACTGCA
GACCCAGGCATGCCTCCACCTGTCTCTGGCATACCCCACATGCAAAGCACAAAGAACATTTATCCATACATCTC
AATATGGTTCCCAAGTGTGTGCACATGCACGTAACACACACACACAAATTCAGGTAGCAGGTACGTGGGCAAG
TATATTCTGCTCATCAAATGGTCATTGGCTATGTACTTTGTGCAGGGAAGTACATTATCTACAGTCACAAAAATG
TCTCATGGGAAAGCCTTGCCAGATTGAGACACATATATACAATTTCTAACCAGCAAGGCCCCCATACACCATCT
ATTCCATAAACCACCTCAGGTTACAGATGCATGCTTTCTTATTTCTAACTCTACACATAAACTTTTACTGGAAGTA
CTCATAATTGGACATTCCAGCAACCTGCTACAGTCCCCACCCTTGTGTGTCTTGATACAGACACACCAAGTTTCT
GTGCCTCTGACCCCTCACCTGTGCCAAGATGTTTAAAGTGTGATGGTTCAAATTCAAAAAAGAGAGGCAACAG
TCGAGACCGGCGCCGAGGAGACGCACGCAGCTGACTTGTCTTCTCCGCACGACTGTTACAGAGGTCTCCAGAG
CCTTCTCTCTCCTGTGCAAAATGGCAACTCTTAAGGAAAACTCATTGCACCAGTTGCGGAAGAAGAGGCAACAG
TTCCAAACAATAAGATCACTGTAGTGGGTGTTGGACAAGTTGGTATGGCGTGTGCTATCAGCATTCTGGGAAAGT
CTCTGGCTGATGAACCTTGCTCTTGTGGATGTTTTGGAAGATAAGCTTAAAGGAGAAATGATGGATCTGCAGCATG
GGAGCTTATTTCTTCAGACACCTAAAATTGTGGCAGATAAAGATTATTCTGTGACCGCCAATTCTAAGATTGTAG
TGGTAACTGCAGGAGTCCGTCAGCAAGAAGGGGAGAGTCGGCTCAATCTGGTGCAGAGAAATGTTAATGTCTTCA
AATTCATTATTCCTCAGATCGTCAAGTACAGTCCTGATTGCATCATAATTGTGGTTTCCAACCCAGTGGACATTC
TTACGTATGTTACCTGGAACTAAGTGGATTACCCAAACACCGCGTGATTGGAAGTGGATGTAATCTGGATTCTG
CTAGATTTGCTACCTTATGGCTGAAAACTTGGCATTATCCAGCAGCTGCCATGGATGGATTTTGGGGGAAC
ATGGCGACTCAAGTGTGGCTGTGTGGAGTGGTGTGAATGTGGCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAA
TGGGAACTGACAATGATAGTGAATTTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGTGCCTATGAAGTCATCA
AGCTAAAAGGATATACCAACTGGGCTATTGGATTAAAGTGTGGCTGATCTTATTGAATCCATGTTGAAAAATCTAT
CCAGGATTCAATCCCGTGTCAACAATGGTAAAGGGGATGTATGGCATTGAGAATGAAGTCTTCCTGAGCCTTCCAT
GTATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAAGCTAAAGGATGATGAGGTTGCTCAGCTCAAGA
AAAGTGCAGATACCCTGTGGGACATCCAGAAGGACCTAAAAGACCTGTGACTAGTGAGCTCTAGGCTGTAGAAAT
TTAAAAACTACAATGTGATTAACTCGAGCCTTTAGTTTTTCATCCATGTACATGGATCACAGTTTGTCTTTGATCTT
CTTCAATATGTGAATTTGGGCTCACAGAATCAAAGCCTATGCTTGGTTTAAATGCTTGCAATCTGAGCTCTTGAAC
AAATAAAATTAACCTATTGTAGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 192

MATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMACAISILGKSLADELALVDVLEDKCLKGEMMDLQHGSFLQT
PKIVADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYSPDCIIIVVSNPVDILTYVTWK
LSGLPKHRVIGSGCNLDSARFRYLMAEKLGIHPSSCHGWILGEHGDSSVAVWSGVNVAGVSLQELNPEMGTDNDS
ENWKEVHKMVVESAYEVIKLGKGTNWAIGLSVADLIESMLKNLSRIHPVSTMVKGMYGIENEVFLSLPCILNARG
LTSVINQKLKDDEVAQLKKSADTLWDIQKDLKDL

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FIGURE 193

CGCCCCCAGAGTCTGGCTTTCCGCGGCTGCCCCGCTCGCGCGTCTTCCCTGCCCGGGTCTCCTCGCTGTCGCCGC
CGCTGCCACACC**ATG**GCCTTCGTCAACAGGCAGTTCATGCGTTCCGTGTCTCCTCGTCCACCGCCTCGGCCTCG
GCCAAGAAGATAATCGTCAAGCACGTGACGGTCATCGGCGGCGGGCTGATGGGCGCCGGCATTGCCCAGGTTGCT
GCAGCAACTGGTCACACAGTAGTGTTGGTAGACCAGACAGAGGACATCCTGGCAAAATCCAAAAAGGGAATTGAG
GAAAGCCTTAGGAAAGTGGCAAAGAAGAAGTTTGCAGAAAACCCTAAGGCCGGCGATGAATTTGTGGAGAAGACC
CTGAGCACCATAGCGACCAGCACGGATGCAGCCTCCGTTGTCCACAGCACAGACTTGGTGGTGGGAAGCCATCGTG
GAGAATCTGAAGGTGAAAAACGAGCTCTTCAAAGGCTGGACAAGTTTGCTGCTGAACATAACAATCTTTGCCAGC
AACACTTCCTCCTTGTCATATTACAAGCATAGCTAATGCCACCACCAGACAAGACCGATTGCTGGCCTCCATTTT
TTCAACCCAGTGCTGTGATGAACTTGTGGAGGTCATTAACACCAATGACCAGCCAGAAGACATTTGAATCT
TTGGTAGACTTTAGCAAAGCCCTAGGAAAGCATCCTGTTTCTTGCAAGGACACTCCTGGGTTTATTGTGAACCGC
CTCCTGGTTCCATACCTCATGGAAGCAATCAGGCTGTATGAACGAGGTGACGCATCCAAAGAAGACATTGACACT
GCTATGAAATTAGGAGCCGGTTACCCCATGGGCCCATTTGAGCTTCTAGATTATGTCGGACTGGATACTACGAAG
TTCATCGTGGATGGGTGGCATGAAATGGATGCAGAGAACCCATTACATCAGCCCAGCCCATCCTTAAATAAGCTG
GTAGCAGAGAACAAGTTCGGCAAGAAGACTGGAGAAGGATTTTACAAATACAAG**TGAT**GTGCAGCTTCTCCGGCT
CTGAGAAGAACACCTGAGAGCGCTTTCCAGCCAGTGCCCCGAGTGCCCTGTGGGAATGCTCTTTGGTCAGACATTC
CCTCACACAGTACAGTTTAAATAAATGTGCATTTTGATTGTAATCTATCGAAGTGATTATTACACCAGTTACAGCA
GTAATAGATTCTCCATTAAAGAAATAATTCCCTTTTTTAGTCTGTTTCAATTTCTGTGTATTTTCTAAACAGCTTTAC
ACCCTTGGTGCTTGGAGCAAACATGTTTTTTGAACCTTGTCATTTTGTGAAGAATTGCCTAGATTCTTCTCT
CATCAACGGGAAAGTACTTCTCTGAGAGTGCAGTGCACCATGCTCACTGTTGCTGCGTGGGAGAGTCACAAGC
CACTGGCAAGCAAGTGGTATAGTCTGTGAAGCACTGCAGCGAGCAGCACCTGGATCTTGCCTTTATAAGAACATT
TTACTACCTGCAGCTTTGAGTCTTGCCCTACATTTGGGCATGACATAAGATGTGTCTTTATTAGCTCGTCGTG
AAGATGCTGCTGCTGAATGGGTGAGCATATCTCTGTTTGCATGGTTTGCAGGAGGTGCGTTTTTCATGGTCATTCA
GTTCCACAGATCTGAATGATTACTGTCTGTCTGTGTCTTTTTTCCATGAGAAATCACTGTTGCAAATTGCCTATA
AATTGACTCTACTAAAATAACAATGTTTCAGTCTGAAAATTTGAATTGAAAAAATGTATAATATAAAATTGTAA
TACACTCAAATGATTATAAAAGTAAAAGTTGGTAATTTAGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 194

MAFVTRQFMRSVSSSSTASASAKKIIVKHVTVIGGGLMGAGIAQVAAATGHTVVLVDQTEDILAKSKKGIEESLR
KVAKKKFAENPKAGDEFVEKTLSTIATSTDAASVVHSTD LVVEAIVENLKVKNELFKRLDKFAAEHTIFASNTSS
LHITSIANATTRQDRFAGLHFFNPVPVMKLVEVIKTPMTSQKTFESLVDFSKALGKHPVSCKDTPGFIVNRLVLP
YLMEAIRLYERGDASKEDIDTAMKLGAGYPMGPFELLDYVGLD TTKFIVDGWHEMDAENPLHQPSPLNKLVAEN
KFGKKTGEGFYKYK

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FIGURE 195

CCCGGACGTGCGGCTCCCTCGGCCTCCTCGCCATGGACGCGGACGACTCCCGGGCCCCCAAGGGCTCCTTGCGG
AAGTTCCTGGAGCACCTCTCCGGGGCCGGCAAGGCCATCGGCGTGCTGACCAGCGGCGGGGATGCTCAAGGTATG
AACGCTGCCGTCCGTGCGGTGGTGCATGGGTATCTACGTGGGGGCCAAGGTGTACTTCATCTACGAGGGCTAC
CAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGCAAGTGGGC
GGGACGATCATTGGCAGTGC GCGGTGCCAGGCCTTCCGCACGCGGGAAGGCCGCCTGAAGGCTGCTTGCAACCTG
CTGCAGCGCGGCATCACCAACCTGTGTGTGATCGGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTTCCGGAAG
GAGTGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTACGCCTAC
CTCAACGTGGTGGGCATGGTGGGCTCCATCGACAATGATTTCTGCGGCACCGACATGACCATCGGCACGGACTCC
GCCCTGCACAGGATCATCGAGGTGTCGACGCCATCATGACCACGGCCCAGAGCCACCAGAGGACCTTCGTTCTG
GAGGTGATGGGACGACACTGTGGGTACCTGGCCCTGGTGAGTGCCTTGGCCTGCGGTGCGGACTGGGTGTTCTT
CCAGAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCGTGCCCGGAAAAA
AGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAATAAACCCATCACCTCTGAGAAAAATCAA
GAGCTTGTCGTCACGCAGCTGGGCTATGACACACGTGTGACCATCCTCGGGCACGTGCAGAGAGGAGGGACCCCT
TCGGCATTTCGACAGGATCTTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACCCCGGAC
ACCCAGCTTGCCTGCTGCTCACTGAACGGGAACACGCGCTGCGCCTGCCGCTGATGGAGTGCCTGCAGATGACT
CAGGATGTGCAGAAGGCATGGACGAGAGGAGATTTCAAGATGCGGTTTCTGACTCCGAGGGAGGAGCTTTGCGGGC
AACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGGATGATCAGATCCCAAAGACCAATTGCAACGTAGCT
GTCATCAACGTGGGGGCACCCGCGGCTGGGATGAACGCGGCCGTACGCTCAGCTGTGCGCGTGGGCATTGCCGAC
GGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGCTGGACA
GATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTACTTGGA
GAGATCGCCACACAGATGCGCACGCACAGCATCAACGCGCTGCTGATCATCGGTGGATTTCGAGGCCTACCTGGGA
CTCCTGGAGCTGTGAGCCGCCCCGGGAGAAGCACGAGGAGTTCTGTGTCCCATGGTCATGGTTCCCGCTACTGTG
TCCAACAATGTGCCGGGTTCCGATTTACGCATCGGGGCAGACACCGCCCTGAACACTATCACCGACACCTGCGAC
CGCATCAAGCAGTCCGCCAGCGGAACCAAGCGGCGCGTGTTCATCATCGAGACCATGGGCGGCTACTGTGGCTAC
CTGGCCAACATGGGGGGGCTCGCGGCCGGAGCTGATGCCGCATACATTTTCGAAGAGCCCTTCGACATCAGGGAT
CTGCAGTCCAACGTGGAGCACCTGACGGAGAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGAAATGAG
AGCTGCAGTGAAACTACACCACCGACTTCATTTACCAGCTGTATTCAGAAGAGGGCAAAGGCGTGTGTTGACTGC
AGGAAGAACGTGCTGGGTACATGCAGCAGGGTGGGGCACCTCTCCATTTGATAGAACTTTGGAACCAAAATC
TCTGCCAGAGCTATGGAGTGGATCACTGCAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAATTTACCACCGAT
GATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTTCAACCTGTGGCAGAGCTGAAGAAGCAAACG
GATTTTGAGCACAGGATTCCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCCTCATGAAAATCCTGGCCAAGTAC
AAGGCCAGCTATGACGTGTCGGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTTGACCAGTCCCGCC
TGATGTGCCCTGCAGCCACCGTGGACTGTCTGTTTTGTAACTTAAGTTATTTTATCAGCACTTTATGCACGT
ATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCAGCTCCAGTGCCTGCTGTCTGTGGAGTGT
GTCTCATGCTTTCAGATGTGCATATGAGCAGAATTAATTAA

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FIGURE 196

MDADDSRAPKGSRLRKFLHLSGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIYVGAKVYFIYEGYQGMVDGGSNIA
EADWESVSSILQVGGTIIGSARCQAFRTREGRLKAACNLLQRGITNLCVIGGDGSLTGANLFRKEWSGLLEELAR
NGQIDKEAVQKYAYLNVVGMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQRTFVLEVMGRHCGYLA
LVSALACGADWVFLPESPPEEGWEEQMCVKLSENRRKKRLNIIIVAEGAIDTQNKPIITSEKIKELVVTQLGYDT
RVTILGHVQRRGTPSAFDRILASRMGVEAVIALLEATPDTPACVVS LN GNHAVRLPLMECVQMTQDVQKAMDERR
FQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTNCNVAVINVGAPAAGMNAAVRS AVR VGIADGHRMLAIYDGF
DGFAKGQIKEIGWTDVGGWTGQGG SILG TKRVLPGKYLEE IATQMRTHSINALLIIGGFEAYLGLELSAAREKH
EEFCVPMVMVPATVSNNVPGSDFSIGADTALNTITDTCDRIKQSASGTRRVFIETMGGYCGYLANMGG LAAGA
DAAYIFEEPFDIRDLQSNVEHLTEKMKTTIQRLVLRNESCSENYYTTDFIYQLYSEEGKGVFDCRKNVLGHMQQG
GAPSPFDRNFGTKISARAMEWITAKLKEARGRGKKFTTDD SICVLGISKRN VIFQPVAELKKQTD FEHRIPKEQW
WLKLRPLMKILAKYKASYDVSDSGQLEHVQPWSV

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FIGURE 197

TCGCTGCGAAGGACATTTGGGCTGTGTGTGCGACGCGGGTCGGAGGGGCAGTCGGGGGAACCGCGAAGAAGCCGA
GGAGCCCGGAGCCCCGCGTGACGCTCCTCTCTCAGTCCAAAAGCGGCTTTTGGTTTCGGCGCAGAGAGACCCGGGG
GTCTAGCTTTTCCTCGAAAAGCGCCGCCCTGCCCTTGGCCCCGAGAACAGACAAAGAGCACCGCAGGGCCGATCA
CGCTGGGGGCGCTGAGGCCGGCC**ATG**GTTCATGGAAGTGGGCACCTTGGACGCTGGAGGCCTGCGGGCGCTGCTGG
GGGAGCGAGCGGCGCAATGCCTGCTGCTGGACTGCCGCTCCTTCTTCGCTTTCAACGCCGGCCACATCGCCGGCT
CTGTCAACGTGCGCTTCAGCACCATCGTGCGGCGCCGGGCCAAGGGCGCCATGGGCCTGGAGCACATCGTGCCCA
ACGCCGAGCTCCGCGGCCGCTGCTGGCCGGCGCCTACCAACGCCGTGGTGTGCTGGACGAGCGCAGCGCCGCC
TGGACGGCGCCAAGCGCGACGGCACCCCTGGCCCTGGCGGCCGGCGCGCTCTGCCGCGAGGGCGCGCGCCGCGCAAG
TCTTCTTCTCAAAGGAGGATACGAAGCGTTTTTCGGCTTCTTGCCCGGAGCTGTGCAGCAAACAGTCGACCCCCA
TGGGGCTCAGCCTTCCCCTGAGTACTAGCGTCCCTGACAGCGCGGAATCTGGGTGCAGTTCCTGCAGTACCCAC
TCTACGATCAGGGTGGCCCCGTGGAATCCTGCCCTTCTGTACCTGGGCAGTGCATACGCTTCCCGCAAGG
ACATGCTGGATGCCTTGGGCATAACTGCCTTGATCAACGTCTCAGCCAATTGTCCCAACCATTTTGAGGGTCACT
ACCAGTACAAGAGCATCCCTGTGGAGGACAACCACAAGGCAGACATCAGCTCCTGGTTCAACGAGGCCATTGACT
TCATAGACTCCATCAAGAATGCTGGAGGAAGGGTGTGTGTCCTGCCAGGCAGGCATTTCCCGGTCAGCCACCA
TCTGCCTTGCTTACCTTATGAGGACTAATCGAGTCAAGCTGGACGAGGCCTTTGAGTTTGTGAAGCAGAGGCGAA
GCATCATCTCTCCCAACTTCAGCTTCATGGGCCAGCTGCTGCAGTTTGTGAGTCCCAGGTGCTGGCTCCGCACTGTT
CGGCAGAGGCTGGGAGCCCCGCCATGGCTGTGCTCGACCGAGGCACCTCCACCACCACCGTGTTCAACTTCCCCG
TCTCCATCCCTGTCCACTCCACGAACAGTGCCTGAGCTACCTTCAGAGCCCCATTACGACCTCTCCCAGCTGC**T**
GAAAGGCCACGGGAGGTGAGGCTCTTCACATCCCATTTGGGACTCCATGCTCCTTGAGAGGAGAAATGCAATAACT
CTGGGAGGGGCTCGAGAGGGCTGGTCCTTATTTATTTAACTTCACCCGAGTTCCTCTGGGTTTCTAAGCAGTTAT
GGTGATGACTTAGCGTCAAGACATTTGCTGAACTCAGCACATTCGGGACCAATATATAGTGGGTACATCAAGTCC
ATCTGACAAAATGGGGCAGAAGAGAAAGGACTCAGTGTGTGATCCGGTTTCTTTTTGCTCGCCCCCTGTTTTTGT
AGAATCTCTTCATGCTTGACATACCTACCAGTATTATTCGGACGACACATATACATATGAGAATATACCTTATT
TATTTTTGTGTAGGTGTCTGCCTTCACAAATGTCATTGTCTACTCCTAGAGAACCAAATACCTCAATTTTTGTT
TTTGAGTACTGTACTATCCTGTAAATATATCTTAAGCAGGTTTGTTTTCAGCACTGATGGAAAATACCAGTGTG
GGTTTTTTTTTAGTTGCCAACAGTTGTATGTTTGCTGATTATTTATGACCTGAAATAATATATTTCTTCTCTAA
GAAGACATTTTGTTACATAAGGATGACTTTTTTATACAATGGAATAAATTATGGCATTTCATTG

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FIGURE 198

MVMEVGTLDAGGLRALLGERAAQCCLLLDCRSFFAFNAGHIAGSVNVRFSTIVRRRAKGAMGLEHIVPNAELRGRL
LAGAYHAVVLLDERSAALDGAKRDGTLALAAGALCREARAAQVFFLKGGYEAFSASCPELCSKQSTPMGLSLPLS
TSVPDSAESGCSSCSTPLYDQGGPVEILPFPLYLGSAYHASRKDMLDALGITALINVSANCPNHFEQHYQYKSIPV
EDNHKADISSWFNEAIDFIDSIKNAGGRVVFVHCQAGISRSATICLAYLMRTNRVKLDEAFEFVKQRRSIISPNS
FMGQLLQFESQVLAPHCSAEAGSPAMAVLDRGTSTTTVFNFVVSIPVHSTNSALSYLQSPITTSPSC

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FIGURE 199

GTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGCTGGGGTGAGAGAGGAAAGA
CCTACATTCCCTCTCCTGCCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCATATTGTTTGATCTACTTCAT
AGCTCCTTGGAGCAGCCAAAAAAGGGACAGCATGCCCCTTGGCTGGATCAGGGAATCCAGCTCCCTAGACTGCAT
CCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAGCTGGGTGGGGACAGTGATA
GGCCCAAGGTCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAACCTCACCATTGTGAAGCAC
CTACTATGTGCTGGGTGCCTCCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCATTTAATCACCATGGGAAAC
TGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGCCCCCTCCACACCAGTGGCC
TCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCTCTGACTCTGAGTCCACTGC
TCCATTTATAACCCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGGCCTTTATCAAAAAAAGACTCAGCC
AAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGTTTCAGGTCCCACGTCTGGCC
AGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCCTTGTTGGTCAGAGGAGTGATTGAACCAGCTCATCTCCAAG
GATCCTCTCCACTCCATGTTTGCAATGCTTTTATATGGCCCAGCCTTGTAATAACCACAAGGTCCACTCCCTGC
TCCACGAAGCCTTAAGCCATAGGCCCAGGATATTTCTGAGAGTGAAACCATGACTGTGACCACCTTCTGTCCCCA
GCCCTGTCTTGGTTCCTTCCCTATGCCCAGGTACCACCTTTCAGACCCCAGTTCTAGGGGAGAAGAGCCCTGGACA
CCCCCTGCTCTACCCATGAGCCTGCCCGCTGCAATGCCTAGACTTCCCAACAGCCTTAGCTGCCAGTGCTGGTCAC
TAACCAACAAGGTTGGCACCCCAGCTACCCCTTCTTTGCAGGGCTAAGGCCCCCAAACATAGCCCTGCCCCGGA
GGAAGCTTGGGGAACCCATGAGTTGTCAGCTTTGACTTTATCTCCTGCTCTTTCTACATGACTGGGCCTCCCTTG
GGCTGGAAGAATTGGGGATTCTCTATTGGAGGTGAGATCACAGCCTCCAGGGCCCCCAAATCCCAGGGAAGGAC
TTGGAGAGAATCATGCTGTTGCATTTAGAATTTCTGCTTTGCACAGGAAAGAGTCACACAATTAATCAACATGT
ATATTTTCTCTATACATAGAGCTCTATTTCTCTACGGTTTTATAAAAGCCTTGGGTTCCAACCAGGCAGTAGATG
TGCTTCTGAACCGCAAGGAGCAAACACTGAAATAAAATAGTTTATTTTTTCACACTCA

CTCTTTTATAAATTTAGTTTCCATATAGAGAAGTTATATGTGCATTTAAAAAAATTTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCCGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGTCCACAGGCCCCCGCCCCCTCTCCCACCCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCCAGCGGAGGT
AGCAGCAGACGCCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCTGGG
CTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAGAGG
AGCCCCCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCTTGC
TGGTCTCATTTCTGGCGTTTGTGGGCTTCGGAGCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACTTGCA
TCTCTTTGGGCCCAACCAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTCTGA
GGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCCTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCGGTGC
GCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCTCTGC
CCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAAGGGCGTGAACGTCCGCATCGCTGTGAG
CAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGGTGG
CATGCAGAAGCTGACCCATGGCGTCTTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGGGCAG
TGCCAAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTCAATGTACAACCTGCAGCTGCCTGGC
TCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTTGGGCCAGGCAGGCAGCTCCATCCCATCAACTTGGCC
CCGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGGCCTA
CTTGGCGAGTGCGCCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGGTGG
CAATGCCCCGAGTTTTCATCTACGTGCGTGTGATGAACCTACCTGCCACTCTGGAGTTCTCCCACCCTCACAGGTT
CTGGCCTGCCATTGACGATGGGCTGCGGCGGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCAGCTG
CTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCCACTC
TGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCCAGGCTCGAATCCCATATGCCCGTGTCAACCA
CAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTACGGGAGAC
GGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGGCGGCCTGCGGAGCCAGCTGGAGGCCATTTTCTGAG
GGACTGGGACTCCCCTTACATTATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCTGCTCTTG
AGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCCTGTG
CCCCGACCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCTCCAC
CCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCAAAGAAATGGGGGT
GCATGCTGGCCTGCCCCCTGGCCACCCCCACTTTCAGGGGCAAAAAGGGCCAGGGTTATAATAAGTAAATAAC
TTGTCTGTAAAAA

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FIGURE 201

MTQLFLWEYGDHLHFGPNQRPAPCYDPCEAVLVESIPEGLDFPNASTGNPSTSQAWLGLLAGAHSSLDIASFYWT
LTNNDTHTQEPSAQQGEVLRQLQTLAPKGVNVRIAVSKPSGPQPQADLQALLQSGAQVRMVDQMQLTHGVLHTK
FWVVDQTHFYLGSA NMDWRSLTQVKELGVVMYNC SCLARDLTKIFEAYWFLGQAGSSIPSTWPRFYDTRYNQETP
MEICLNGTPALAYLASAPPPLCPSGRTPDLKALLNVVDNARSFIYVAVMNYLPTLEFSHPHRFWPAIDDGLRRAT
YERGVKVRLLISCWGHSEPSMRAFLLSLAALRDNHTHSDIQVKLFVVPADAEQARIPYARVNH NKYMVTERATYI
GTSNWSGNYFTETAGTSLLV TQNGRGGLRSQLEAIFLRDWDSFYIHDLDT SADS VGNACRLI

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FIGURE 202

CGCCTCCACGGCGATCAGGTTAGTGTGCGCCGCGGGTGCTGGGGGCTCGAGAACCGAGCGGAGCTGGTTGAGCCT
TCAAAGTCCTAAAACGCGCGGCCGTGGGTTTCGGGGTTTATTGATTGAATTCGCGCGGCGCGGGAGCCTCTGCAGA
GAGAGAGCGCGAGAGATGGAGATGGGCAGACGGATTCATTTAGAGCTGCGGAACAGGACGCCCTCTGATGTGAAA
GAACTTGTCCTGGACAACAGTCGGTCGAATGAAGGCCAACTCGAAGGCCTCACAGATGAATTTGAAGAACTGGAA
TTCTTAAGTACAATCAACGTAGGCCTCACCTCAATCGCAAACCTACCAAAGTTAAACAAACTTAAGAAGCTTGAA
CTAAGCGATAACAGAGTCTCAGGGGGCCTGGAAGTATTGGCAGAAAAGTGTCCGAACCTCACGCATCTAAATTTA
AGTGGCAACAAAATTAAGACCTCAGCACAAATAGAGCCACTGAAAAAGTTAGAAAACCTCAAGAGCTTAGACCTT
TTCAATTGCGAGGTAACCAACCTGAACGACTACCGAGAAAAATGTGTTCAAGCTCCTCCCGCAACTCACATATCTC
GACGGCTATGACCGGGACGACAAGGAGGCCCTGACTCGGATGCTGAGGGCTACGTGGAGGGCCTGGATGATGAG
GAGGAGGATGAGGATGAGGAGGAGTATGATGAAGATGCTCAGGTAGTGAAGACGAGGAGGACGAGGATGAGGAG
GAGGAAGGTGAAGAGGAGGACGTGAGTGGAGATGACGAGGAGGATGAAGAAGTTATAACGATGGAGAGGTAGAT
GACGAGGAAGATGAAGAAGAGCTTGGTGAAGAAGAAAGGGGTCAGAAGCGAAAACGAGAACCTGAAGATGAGGGA
GAAGATGATGACTAAGTGAATAACCTATTTTGA AAAAATTCCTATTGTGATTTGACTGTTTTTACCCATATCCCC
TCTCCCCCCCCCTCCAATCCTGCCCCCTGAAACTTATTTTTTTCTGATTGTAACGTTGCTGTGGGAACGAGAGG
GGAAGAGTGTACTGGGGGTTGCGGGGGGAGGGATGGCGGGTGGGGGTGGAATAAAATACTATTTTTTACTGCCACT
CTTTATTTTTTTCCCTACTTTTTCTTTGTGTCCGGTTTTTTGTCCCTGTAAATGCGATAGCTAAGTACACACTAA
GTGAGCATTFTGTTCTGACTCTCAAAGAGGATGGTTTGAGGTTCTCTTACGTTTTCTGGTATTTCCCAAGTCTCT
TGGGTTGGTTGGAAGGCTGTGGCTGGTCTCAGTTTGTTTACTCAATGCCAGGAGGGGCTGAGCACCAGCCATAT
CTTTTGCTTTGGTTACATGATGATACCTGCTTTTCTCAGGCCTGCTAGAGGCATCCAACGCCCTGGTTTTGTAAA
TAGCAACCTAAAGGCGTATTTTGGCACTGGTCTGGGGACATTCCCCATCTCTCATCCCTTTTCCCCCTTCACAGA
TGGTGGTGGGCTTCGCTCTACAAAGAGGACTCTGATGTTACTCTTGAGCTTATGAGCCAGAGAGCTGAAAACCGC
AGGCTTGTTGTGTTAAGTTACAAGGAAAATGGATTTGGTAATTA AAATTAGAAGAAACACACCTTCAAACCTCAA
CTTCTTTAAAAGAAAAAAA AACTGTCCTATCTTGTTCTGTAAAATATTAGAACGCTTTGTTTTACAAAAATGA
TGAGAGAATTCTTCACATGTACTTCTGTGCTTAGAACATTTTTACGGACCTAAGCGCTGGAGACGTTGCTGCAT
GTCGGCTGGGTTTTTTTTTTTTCATACACCCGAGCACGGAAAACTAACGCAAAATTGTATTTTCTTACCTAGTGGA
AATCTGAAATGACTGCAAATTCCTAGTGAATGTACAGGTTTGCTTTCGTGTCCCTCTTCTGGTTGCTTTAGAAGT
GACGTGTAATTTCTGAACCCATGTTTCATCTGTATAAAAGAACATCTGCACCAGTTTTTCTCCTGCCCTCAGAA
GAGCCAACTTTGAGTTTTATGTCTGTTTGTGTCATTGATAAATTTCAATAAATCTTTTTATACAATTTTTTTGGGG
ATGGCTTCTTTGAGTCCAACAGGCCATTGATCTTTTCAAGATGCATTCCAGATGAACTGCTAGGTGAGGGGGAAG
CTTCATTTTTTGTACCTGATAGAATAGCTTTTCTTATGAGATATATATAATGTGATACTATGTTTGGATATTTTT
GGTCTTAAAGCAAGACTCAGTGGTGTATCTTCATTA AAAGCTTCCTTTAAAAAAGTTACAGAGTTACTAAAAAAA
CAAGTACCCAAACAATCAAGTTGGGCCAACCTTGGAACCTTGTTTTGAATATCTTTCATTGTTTTGTTTGTGCGTA
TTGTAAAAAAGAAATGTATGGTTGAAAACCTCAGGAATGTTTATAAAACAAATTATTTACAAAACCCAAAAAA

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FIGURE 203

ASTAIRLVCAAGAGGSRTERSWSLSLQSPKNARPWVRGLLIEFRRRGSLCRERAREMEMGRRIHLELRNRTPSDVK
ELVLDNSRSNEGKLEGLTDEFEELEFLSTINVGLTSIANLPKLNKLELSDNRVSGGLEVLAEKCPNLTHLNL
SGNKIKDLSTIEPLKKLENLKSLLDFNCEVTNLNDYRENVFKLLPQLTYLDGYDRDDKEAPDSDAEGYVEGLDDE
EEDEDEEEYDEDAQVVEDEDEDEEEEGEEEDVSGDDEEDEEGYNDGEVDDEDEEELGEEERGQKRKREPEDEG
EDDD

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FIGURE 204

CAACTACAAGCAAACAGCACAAATTAATGCAACATTCAGCAACTCCAGACCAGCTTTTCTTACCCCCATGAAGAAC
GATCAATTTAAAAAACACAGATCTCAGGTTTCCTCCCAAGCTGTCAGCGAGCGCTGCTACCGGTCTAGATTGCCA
TGTCCCAACAACAGCAAAGCCACCCTCCCTCCTGCTTCTTCCAGGATTGCTCTTTAAAGGGACCAGAGTGACATA
CTGATGCCTGGGGAATAAAGGTGGAGCGTGTGGAAATTAAGGATGTGAAACTACCTGTGCAGCTCCAGAGAGCTA
TGGCTGCAGAAGCAGAAGCGTCCCGCGAGGCCCGCGCCAAGGTTATTGCAGCCGAAGGAGAAATGAATGCATCCA
GGGCTCTGAAAGAAGCCTCCATGGTCATCACTGAATCTCCTGCAGCCCTTCAGCTCCGATACCTGCAGACACTGA
CCACCATTGCTGCTGAGAAAACTCAACAATTGTCTTCCCTCTGCCCATAGATATGCTGCAAGGAATCATAGGGG
CAAAACACAGCCATCTAGGCTAGTGTAGAGATGAGCGCTAGCCTTCCAAGCATGAAGTCGGGGACCAAATTAGCC
TTTAACTCATAAAGAGAGGGTAGGGCTTTTCTTTTCCATATGTCAATTGTGGTGTTCCCAGAATGTATAGCAGT
TATAAAAATAGGTGAAAGAATTGTTAGCTTGTAATACTGAGAGATTGGTGATTTATATAAGGTAATCTGTTAGT
CTTAAAAATAGTTAAAAGTTTGTATTTTTAGATTATTATGTAGTAGGTTAGATCCCTCTTGTTTTGACTTCCACTG
ACTCATTCTGAACCCCTAAGCACCCAGGCCAGAGGCAAGAACCCTGGGCTGTAAGTCCACCTGACACCGCTGAC
TGGCTAAATGCTTTGCAGAAAGTGATGACCTTACACCACAACCAGCTTCTCCAGGTCATATGTGCCTTACCTCCA
GAGAGTCTTTTTTTTTTTTTTTTTCTGAGATGGAGTTTCACTCTTGTTGCCCAGGCTGGAGTGCAATAGCATGATCT
CGGCTCACTGCAACCTCCGCTCCTGGGTTCAAGAGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATTACAG
GCTCATACCACCATGCCCAGCTAATTTTTGTATTATTATTATTGTTTTTTAGTAGAGACGGGGTTTCACCATGTT
GGCCAGGCTAGTCACGAACCTCCTAACCTCAGGTGATCCACCCACCTCTGCCTCCCAAAGTGCTGGGATTACAGGC
ATGAGCTACCACACCTGGTTTGGAGAGTCTTAATTAAGGAAATTTCCCTAATGTTCAATTTATTTTCTAAATCCAG
ACCGTGTTTCAGAATAATCCTTACTTGAGAGTAGCCATTTTCTTGCTGTACTTGTGCAAGTACAGAGGAAATAGC
CAAGACTAATGAAAAAGATTACTCTAACCCCTTAAAAGACTTTTAAATTCCTACTAGAGTGGTCATTTTAAAAAT
ACATCCATGTTTTAACTTATTTGAGCCTTCTTTATGAGTAAATGATTCCTCCTTGTCTGTCTTTCAAACCAGCT
AAATATTTGTCACAAAAGTGCTTTTTTCTCACTGTTGCCTATTTTCATATATCAGGTTTTAAATAGTTTTAATTT
TTTAATAAAATTTTCTCTACGTTCTATAAAAAAAAAAAAAAAAAA

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FIGURE 205

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTTCAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTCGGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTACTTCATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTTCGAGTTATTGGATCTGAGCTTGACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTCGTGAACTCTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAAGTATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCGGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATACAACTGAACCCTGAAGGCTTTCAAGTGAAAACCTTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAAATGG

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FIGURE 206

MPDYLGADQRKTKEDDKPIRALDEGDIALLKTYGSTYSRQIKQVEDDIQQLLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSDQVAPTDIEEGMRVGVDNRNKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSDVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTLC
ARAVANRTDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRNIKVLMATNRPDTLDPALMRPGRDRKIEFSLPDLEGRTHIFKIHARSMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKIATEKDFLEAVNKVIKSYAKFSATPRYMTYN

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FIGURE 207

CCGCGCCAGTCGCCTAGCAGGTCCTCTACCGGCTTATTCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGAG
ACGTTTCTGCCTCCCTCTTTCTTCTCCGCTCTTTCTCTCCCTCTCGTTTAGTTTGCCTGGAGCTTGAAAGGAG
AAAGCACGGGGTCGCCCCAAACCCCTTCTGCTTCTGCCCATCACAAGTGCCACTACCGCC**ATG**GGCCTCACTATC
TCCTCCCTCTTCTCCCGACTATTTGGCAAGAAGCAGATGCGCATTGATGGTTGGATTGGATGCTGCTGGCAAG
ACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCTACCATTGGTTTTAATGTGGAAACA
GTAGAATATAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGTCAAGATAGAATTAGGCCTCTCTGGAAGCAT
TACTTCCAGAATACCCAGGGTCTTATTTTTGTGGTAGATAGCAACGATCGTGAAAGAATTCAGGAAGTAGCAGAT
GAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAGAGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTTG
CCAAATGCTATGGCCATCAGTGAAATGACAGATAAACTAGGGCTTCAGTCTCTTCGTAACAGAACATGGTATGTT
CAAGCCACTTGTGCAACACAAGGAACTGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTTCAAAACGT
TAAAATGAAATTGGATATCTAACCAAGGACATGTTTGATAAAATTGGTCTAGGCTTGTTACAACAAAATTAGTTTG
TATCTTGTTTATTAAACAGTATCTGGGACTGGTTTGGGCAGAAATATTAACTTATTTTTGTTGCCAATTATTGTTT
ACCGAGTATAATGTTGCTATTTAGCAATGTGCTTGGTTTTAAAGAAATTCCTTGCGGAAAAAGTATCCTCTTT
TAATTTTACTTCCCATAGCGTAAATGCCTGGACATAGCTCTTGTGAACCTTTAAATAAATTGTTTGAGTGTTTT
TGAGCCCCAGACAAATAATGTTTTAAAGTTATCCCTTGCTACTTTACTGATACCTTTATCATTCTGAGACAGTT
TGCTAATTTAAAAATGTAGCATTCCATTTGTATTTATTTCTCTCCCTTGCCAAAAAGATTTTCTAATACTGCTTG
TACCAGCCAGAGAAAGATCCAAAACACTACTCAGCTCTCTTGCACTGAGGAAATTTTCCCCCTACATTGACTCC
TGGCCTACATCAGCCAACTTAACCTTGGTGGGGTTTGATTTGATAGCCAATTAGTTCTGTGCTGGTTGCAAAG
AATTGATATTTAGATGGTTTTTAATACTCAGCAGATTGTCTCCCATATTGTGTCTTTTTTATGTTGCATGTTGC
TTTTGTTATCAGCCTGATTTTTTGCTCAGTATATGATAGTTCTGCTGATGTTTTGTTTATTGGGCAGACATATCT
TCATTAAGAGTTTTTGGAAACTCATCAAATTCGATGAATACATTTCTTCATAACCCATTTGGAATTATTCCTA
ATAAAATGATAAAATACGTAAAAAAAAGGAATTC

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FIGURE 208

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDRIR
PLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDEL RDAVLLLFANKQDLPNAMAISEMTDKLGLQSLRN
RTWYVQATCATQGTGLYEGLDWLSNELSKR

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FIGURE 209

GAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGAAAAGAAGAAGGGGAAGAA
AAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAACAGCGTGCTGATGGAAGTGGAAGAGCCTGAAG
TCTTGACAGGACTCACTGGATAGATGTTATTGCACTCCATCAATGTACTTTGAACTACCTGACTCATTCCAGCACT
ACAGAAGTGTGTTTTACTCATTGAGGAACAGCACATCACCTTTGCCCTTGACATGGACAATAGCTTTTTTACTT
TGACGGTGACAAGTCTTCACCTGGTCTTCCAGATGGGAGTCATATTCCCACAATAAGCAGCCCTTACTAAGCCGA
GAGGTTTCATTCTGCAGGCAGGACCTATAGGCACCTGAAGATTTGAATGAACTATAGTTCCATTGGAAGCCC
AGACATAGGATGGGTCAGTGGGCATGGCTCTATTCTCAGAGCATGCCAGTGGCAACCTGTGCTCAGTCT
GAAGACAATGGACCCACGTTAGGTGTGACACGTTACATAACTGTGCAGCACATGCCGGGAGTGATCAGCCGGAC
ATTTTAATTTGAACCATGTATCTCTGGGTAGCTACAAAATTCCTCAGGGATTTTCAATTTGCAGGCATGTCTCTGA
GCTTCTATACCTACTCAAGGTCAGTGTCTCTTTGTGTTTAGTTTCATCCAAAGGTGTTACCCTGGTTTTCAATGAA
CCTAACCTCATTATTTGTGTCTTCAGTGTGGCTTGTTTTAGCTGATCCATCTGTAACACAGGAGGGATCCTTGG
CTGAGGATTGTATTTTCAAGAACCAACTGCTCTTGACAATTGTTAACCCTAGGCTCCTTTGGTTAGAGAAGC
CACAGTCCCTTCAGCCTCCAATTGGTGTGAGTACTTAGGAAGACCACAGCTAGATGGACAAACAGCATTGGGAGGC
CTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAACAGGAGTCAGGAGCCGCTGGCAGGAGACAGCATGTCAC
CCAGGACTCTGCCGGTGCAGAATATGAGCAATGCCATGTTCTTGAGAAAACGCTTAGCCTGAGTTTCATAGGAG
GTAATCACCAGACAACCTGCAGAGTGTGGAACACTGAGCAGGACAACCTGACCTGTCTCCTTCACATAGTCCATGTC
ACCACAAATCACACAACAAAAAGGAGAAGAGATATTTGGGTTGAAAAAAGTAAAAAGATAATGTAGCTGCATT
TCTTTAGTTGTTTTGAACCCCAAATATTTCTCATCTTTTTGTGTTGTGTCATTGATGGTGGTGACATGGACTTGT
TTATAGAGGACAGGTCAGCTCTCTGGCTCGGTGATCTACATTCTGAAGTTGTCTGAAAATGTCTTCATGATTAA
TTCAGCCTAACTTTTTGCTGGGAACACTGCAGAGACAATGCTGTGAGTTTCCAACCTCAGCCCATCTGCGGGCA
GAGAAGGTCTAGTTTGTCATCACCATTATGATATCAGGACTGGTTACTTGGTTAAGGAGGGGTCTAGGAGATCT
GTCCCTTTTAGAGACACCTTACTTATAATGAAGTACTTGGGAAAGCGTTTTTCAAGAGTATAAATATCCTGTATT
CTAATGATCATCCTCTAAACATTTTATCATTATTAATCCTCCCTGCCTGTGTCTATTATTATATACATATCTCT
ACGCTGCAAATTTTGGGTCTCAATTTTTACTGTGCCTTTGTTTTTACTAGTGTCTGCTGTTGCAAAAAGAAGAAA
ACATTCTCTGCCTGAGTTTTTAATTTTTGTCCAAAGTTAATTTAATCTATACAATTAACCTTTTGCCTATCAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 210A

AAGATCTCATAAAATCTATGCTGAGGAATGAGCGACAGTTCAAGGAGGAGAAGCTTGCAGAGCAGCTCAAGCAAG
CTGAGGAGCTCAGGCAATATAAAGTCTTGGTTCACGCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAGTTGC
GGGAAGGGAGAGATGCCTCCCGCTCATTGAATGAGCATCTCCAGGCCCTCCTCACTCCGGATGAGCCGGACAAGT
CCCAGGGGCAGGACCTCCAAGAACAGCTGGCTGAGGGGTGTAGACTGGCACAGCACCTTGTCCAAAAGCTCAGCC
CAGAAAATGACAACGATGACGATGAAGATGTTCAAGTTGAGGTGGCTGAGAAAGTGAGAAAATCGTCTGCCCCCA
GGGAGATGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTCACTGGAGGAATGTGCCATCACTTGTTCAAATA
GCCATGGCCCTTATGACTCCAACCAGCCACATAGGAAAACCAAATCACATTTGAGGAAGACAAAGTCGACTCAA
CTCTCATTGGCTCATCTCTCATGTTGAATGGGAGGATGCTGTACACATTATTCCAGAAAATGAAAAGTGATGATG
AGGAAGAGGAAGAAAAGGACCAGTGTCTCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGTCCCCCAGGAGT
CCTGGGATGAAGGTTATTGACTCTCTCAATTCCTCCTGAAATGTTGGCCTCGTACAAGTCTTACAGCAGCACAT
TTCACTCATTAGAGGAACAGCAAGTCTGCATGGCTGTTGACATAGGCAGACATCGGTGGGATCAAGTGAAAAGG
AGGACCACGAGGCAACAGGTCCCAGGCTCAGCAGAGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAGGACT
CACTGGATAGATGTTATTCAACTCCTTCAGGTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCT
TTTACGTATTGGAGCAACAGCGTGTGGCTTGGCTGTTAACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAG
AAGACCAAGACCCATCATGCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACT
CACTGGGTAGATGTTATTGACTCCTTCAGGTTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGCAGTGTCTG
TTTACTCATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGAAG
AAGACCAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGCAGGACT
CACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCCT
TTTATGCATTGGAGGAAAAGCATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGGGAAGGGGAAGA
AAAGAAGGGGAAGAAGATCAAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAACCCACCAT
GCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTTATT
CAACTCCTTCAGGTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACATATTGGAGCAAC
AGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCAAGACCCATCAT
GCCCCAGGCTCAGCAGGGAGCTGTTGGATGAGAAAGAGCCTGAAGTCTTGCAGGAGTCACTGGATAGATGCTATT
CAACTCCTTCAGGTTGTCTTGAAGTCACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACATATTGGAGCAAC
AGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCAAGACCCATCAT
GCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCACTGGGTAGATGTTATT
CGACTCCTTCAGGTTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGCAGTGTCTTTTACTCATTTGGAGGAAC
AGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGAAGAAGACCAAGGCCACCAT
GCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTTATT
CAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCCTTTTATGCATTGGAGGAAA
AACATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAGGGGAAGAAGAT
CAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAACAGCA
TGCTGATGGAAGTGGAAGAGCCTGAAGTCTTGCAGGACTCACTGGATATATGTTATTGACTCCGTCAATGTACT
TTGAACTACCTGACTCATTCCAGCACTACAGAAAGTGTGTTTTTACTCATTGAGGAAGAGCATATCAGCTTCGCCC
TTTACGTGGACAATAGGTTTTTTTACTTTGACGGTGACAAAGTCTCCACCTGGTGTTCAGATGGGAGTCATATTCC
CACAATAAGCAGCCCTTACTAAGCCGAGAGGTGTCAATTCCTGCAGGCAGGACCTATAGGCACGTGAAGATTTGAA
TGAAAGTACAGTTCCATTGGAAGCCCAGACATAGGATGGGTCAAGTGGGCATGGCTCTATTTCCTATTCTCAAACC
ATGCCAGTGGCAACCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTTTACATAACTGTGCA
GCACATGCCGGGAGTGATCAGTCAGACATTTTAATTTGAACCACGTATCTCTGGGTAGCTACAAAATTCCTCAGG
GATGTCAATTTGCAGGCATGTCTCTGAGCTTCTATACCTGCTCAAGGTCATTGTCTCTTTGTGTTAGCTCATC
CAAAGGTGTTACCCTGGTTTCAATGAACCTAACCTCATTCTTTGTGTCTTCAGTGTGGCTTGTGTTAGCTGATC
CATCTGTAACACAGGAGGGATCCTTGGCTGAGGATTGTATTTCAGAACCACCAACTGCTCTTGACAATTGTTAAC
CCGCTAGGCTCCTTTGGTTAGAGAAGCCACAGTCTTCAGCCTCCAATTGGTGTCTAGTACTTAGGAAGACCACAG
CTAGATGGACAAACAGCATTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAACAGGAGTCAGG
AGCCGCTGGCAGGAGACAGCATGTACCCAGGACTCTGCCGGTGCAGAATATGAGCAATGCCATGTTCTTGCAGA
AAACGCTTAACCTGAGTTTCATAGGAGGTAATCACCAGACAACCTGCAGAATGTAGAACACTGAGCAGGACAACCTG

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FIGURE 210B

ACCTGTCTCCTTCACATAGTCCATATCACCACAAATCACACAACAAAAAGGAGAAGAGATATTTTCGGTTGAAAA
AAAGTAAAAAGATA

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FIGURE 211

MLRNERQFKEEKLAEQLKQAEELRQYKVLVHAQERELTQLREKLREGRDASRSLNEHLQALLTPDEPDKSQGQDI
QEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPREMQAEEKEVPEDSLEECAITCSNSHGPYD
SNQPHRKTKITFEEDKVDSTLIGSSSHVEWEDAVHIIPENESDDEEEEEKGPVSPRNLQESEEEVVPQESWDEGY
STLSIPPEMLASYKSYSSTFHSLEEQQVCMAVDIGRHRWDQVKKEDHEATGPRLSRELLDEKGPEVLQDSLDRCY
STPSGCLELTDSCQPYRSAFYVLEQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQDSLGRCY
STPSGYLELPDLGQPYSSAVYSLEEQYLGLALDVDRIKKDQEEEDQGPPCPRLSRELLEVVEPEVLQDSLDRCY
STPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKKGKGGKRRGRRSKKERRRGRKEGEEDQNPPCPRLSR
ELLDEKGPEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSG
ELLDEKEPEVLQESLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEEDQDPSCPRLSR
ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEEQYLGLALDVDRIKKDQEEEDQGPPCPRLSR
ELLEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIEKKKGKGGKRRGRRSKKERR
RGRKEGEEDQNPPCPRLNSMLMEVEEPEVLQDSLDCYSTPSMYFELPDSFQHYRSVFYSFEEHISFALYVDNR
FFTLTVTSLHLVFQMGVIFPQ

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FIGURE 212

CGGGGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCG
CCGCG**ATG**AGCCTCGGCCGCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCC
TGGCCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACA
TCGACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAG
GCAAGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCCGATACGCTGAGTGTGGTTTTCGGGATCCTGG
CCTTCCCGTGTAACCAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACA
ACGTCAAATTCGATATGTTTCAGCAAGATCTGCGTGAACGCGGACGACGCCACCCGCTGTGGAAGTGGATGAAGA
TCCAACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAAC TTCACCAAGTTCCTCATCGACAAGAACG
GCTGCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTT**CAGC**
TCCACAAGTGTGTGGCCCCGCCCAGCCCCCTGCCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGC
CTGCAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGACCCCGCCGGAGGAAGTCCCATGGCCTGCTGG
GCTTGGCTCGGCGCCCCCACCCTGGCTACCTTGTGGGAATAAACAGACAAATTAGAAAAAAAAAAAAAA

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FIGURE 213

MSLGRLCRLKPALLCGALAAPGLAGTMCASRDDWRCARSMHEFSAKDIDGHMVNLDKYRGFVCIVTNVASQXGK
TEVNYTQLVDLHARYAECGLRILAFPCNQFGKQEPGSNEEIKEFAAGYNVKFDMFSKICVNGDDAHPLWKWMKIQ
PKGKGILGNAIKWNFTKFLIDKNGCVVKRYGPMEEPLVIEKDLPHYF

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FIGURE 214

GCCGCCATGGCCCAAGCTGACATCGCGCTGATCGGATTGGCCGTCATGGGCCAGAACTTAATTCTGAACATGAAT
GACCACGGCTTTGTGGTCTGTGCTTTTAATAGGACTGTCTCCAAAGTTGACGATTTCTTGGCCAATGAGGCCAAAG
GGAACCAAAGTGGTGGGTGCCAGTCCCTGAAAGAGATGGTCTCCAAGCTGAAGAAGCCCCGGCGGATCATCCTC
CTGGTGAAGGCTGGGCAAGCTGTGGATGATTTTCATCGAGAAATTGGTACCATTGTTGGATACTGGTGACATCATC
ATTGACGGAGGAAATTCTGAATATAGGGACACCACAAGACGGTGCCGAGACCTCAAAGGCAAGGGAATTTTATTT
GTGGGGAGCGGAGTCAGTGGTGGAGAGGAAGGGCCCCGGTATGGCCCATCGCTCATGCCAGGAGGGAACAAAGAA
GCGTGGCCCCACATCAAGACCATCTTCCAAGGCATTGCTGCAAAAAGTGGGAACTGGAGAACCCTGCTGTGACTGG
GTGGGAGATGAGGGAGCAGGCCACTTTGTGAAGATGGTGACAACGGGATAGAGTATGGGGACATGCAGCTGATC
TGTGAGGCATACCACCTGATGAAAGACGTGCTGGGCATGGCGCAGGACGAGATGGCCCAGGCCTTTGAGGATTGG
AATAAGACAGAGCTAGACTCATTCTGATTGAAATCACAGCCAATATTCTCAAGTTCCAAGACACCGATGGCAAA
CACCTGCTGCCAAAGATCAGGGACAGCGCGGGGCAGAAGGGCACAGGGAAGTGGACCGCCATCTCCGCCCTGGAA
TACGGCGTACCCGTCACCCTCATTGGAGAAGCTGTCTTTGCTCGGTGCTTATCATCTCTGAAGGATGAGAGAATT
CAAGCTAGCAAAAAGCTGAAGGGTCCCCAGAAGTTCCAGTTTGATGGTGATAAGAAATCATTCTGGAGGACATT
CGGAAGGCACTCTACGCTTCCAAGATCATCTCTTACGCTCAAGGCTTTATGCTGCTAAGGCAGGCAGCCACCGAG
TTTGGCTGGACTCTCAATTATGGTGGCATCGCCCTGATGTGGAGAGGGGGCTGCATCATTAGAAGTGATTTCCTA
GGAAAGATAAAGGATGCATTTGATCGAAACCCGGAACCTTCAGAACCTCCTACTGGACGACTTCTTTAAGTCAGCT
GTTGAAAAC TGCCAGGACTCCTGGCGGCGGGCAGTCAGCACTGGGGTCCAGGCTGGCATTCCCATGCCCTGTTTT
ACCACTGCCCTCTCCTTCTATGACGGGTACAGACATGAGATGCTTCCAGCCAGCCTCATCCAGGCTCAGCGGGAT
TACTTCGGGGCTCACACCTATGAACTCTTGGCCAAACCAGGGCAGTTTATCCACACCAACTGGACAGGCCATGGT
GGCACCGTGTCATCCTCGTCATACAATGCCTGATGGGCTCCTGTCACCCTCCACGTCTCCACAGACCAGGACATT
CCATGTGCCTCATGGCACTGCCACCTGGGCCTTTGG

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FIGURE 215

MAQADIALIGLAVMGQNLILNMNDHGFVVCAFNRTVSKVDDFLANEAKGTKVVGAQSLKEMVSKLKKPRRIILLV
KAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRDLKGKGILFVGSGVSGGEEGPRYGP SLMPGGNKEAW
PHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMLICEAYHLMKDVLGMAQDEMAQAFEDWNK
TELDSFLIEITANILKFQD TDGKHL L PKIRDSAGQKGTGKWT AISALEYGV PVT L IGEAVFARCLSS LKDERIQA
SKKLKGPQKFQFDGDKKS FLEDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYGGIALMWRGGCIIRSVFLGK
IKDAFDRNPELQNL L LDDFFKSAVENCQDSWRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQAQRDYF
GAHTYELLAKPGQFIHTNWTGHGGTVSSSSYNA

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FIGURE 216

GGCACGAGGGCGGAGCCAGCCCCCTCCCCTACCCGGAGCAGCCCGCTGGGGCCGTCCCGAGCGGCGACACACTAGG
AGTCCCGGCCGCGCCAGCCAGGGCAGCCGCGGTCCCGGGACTCGGCCGTGAGTGCTGCGGGACGGATGGTGGCGGC
GGGGCGCGGGGCCAGCGCGGGCGCCGTGAGCCGGAGCTGCGCGCGGGGCATGCGGCTGCGGGCCCCCGGCCCTCGGC
CCCCGCGCTCCGGCCCCAGCCCCGGCCGCGGCCCGCCCGCGGAGTGACGCGACCGCGCCGCGCTGAGGGAGGCGC
CCCACCATGCCGCGGGCCCCGGCGCCGCTGTACGCCTGCCTCCTGGGGCTCTGCGCGCTCCTGCCCCGGCTCGCA
GGTCTCAACATATGCACTAGTGAAGTGCCACCTCATGTGAAGAATGTCTGCTAATCCACCCAAAATGTGCCTGG
TGCTCCAAAGAGGACTTCGGAAGCCACGGTCCATCACCTCTCGGTGTGATCTGAGGGCAAACCTTGTCAAAAAT
GGCTGTGGAGGTGAGATAGAGAGCCAGCCAGCAGCTTCCATGTCTGAGGAGCCTGCCCCCTCAGCAGCAAGGGT
TCGGGCTCTGCAGGCTGGGACGTCATTAGATGACACCACAGGAGATTGCCGTGAACCTCCGGCCCCGGTGACAAG
ACCACCTTCCAGCTACAGGTTCCGCCAGGTGGAGGACTATCCTGTGGACCTGTACTACCTGATGGACCTCTCCCTG
TCCATGAAGGATGACTTGGACAATATCCGGAGCCTGGGCACCAAACCTCGCGGAGGAGATGAGGAAGCTCACCAGC
AACTTCCGGTTGGGATTTGGGTCTTTTGTGATAAGGACATCTCTCCTTTCTCTACACGGCACCGAGGTACCAG
ACCAATCCGTGCATTGGTTACAAGTTGTTTCCAAATTCGCTCCCCTCCTTTGGGTTCCGCCATCTGCTGCCTCTC
ACAGACAGAGTGGACAGCTTCAATGAGGAAGTTCGGAACAGAGGGTGTCCCGGAACCGAGATGCCCTGAGGGG
GGCTTTGATGCAGTACTCCAGGCAGCCGTCTGCAAGGAGAAGATTGGCTGGCGAAAGGATGCACTGCATTGCTG
GTGTTCAACAGATGATGTGCCCCACATCGCATTGGATGGAAAATTGGGAGGCCTGGTGCAGCCACACGATGGC
CAGTGCCACCTGAACGAGGCCAACGAGTACACTGCATCCAACCAGATGGACTATCCATCCCTTGCCCTTGCTTGGGA
GAGAAAATTGGCAGAGAACAACATCAACCTCATCTTTGCAGTGACAAAAAACATTATATGCTGTACAAGAATTTT
ACAGCCCTGATACCTGGAACAACGGTGGAGATTTTAGATGGAGACTCCAAAAATATTATTCAACTGATTATTAAT
GCATACAATAGTATCCGGTCTAAAGTGGAGTTGTCAGTCTGGGATCAGCCTGAGGATCTTAATCTCTTCTTTACT
GCTACCTGCCAAGATGGGGTATCCTATCCTGGTCAGAGGAAGTGTGAGGGTCTGAAGATTGGGGACACGGCATCT
TTTGAAGTATCATTGGAGGCCCGAAGCTGTCCCAGCAGACACACGGAGCATGTGTTTGCCTGCGGCCGGTGGGA
TTCCGGGACAGCCTGGAGGTGGGGTACCTACAACCTGCACGTGCGGCTGCAGCGTGGGGCTGGAACCCAACAGT
GCCAGGTGCAACGGGAGCGGGACCTATGTCTGCGGCCGTGTGTGAGTGCAGCCCCGGCTACCTGGGCACCAGGTGC
GAGTGCCAGGATGGGGAGAACCAGAGCGTGTACCAGAACCTGTGCCGGGAGGCAGAGGGCAAGCCACTGTGCAGC
GGCGCTGGGGACTGCAGCTGCAACCAGTGCTCCTGCTTCGAGAGCGAGTTCGGCAAGATCTATGGGCCTTTCTGT
GAGTGCGACAACCTTCTCCTGTGCCAGGAACAAGGGAGTCTCTGCTCAGGCCATGGCGAGTGTCACTGCGGGGAA
TGCAAGTGCCATGCAGGTTACATCGGGGACAACCTGTAACCTGCTCGACAGACATCAGCACATGCCGGGGCAGAGAT
GGCCAGATCTGCAGCGAGCGTGGGCACTGTCTCTGTGGGCAGTGCCAATGCACGGAGCCGGGGGCTTTGGGGAG
ATGTGTGAGAAAGTGCCCCACCTGCCCGGATGCATGCAGCACCAGAGAGATTGCGTCGAGTGCCTGCTGCTCCAC
TCTGGGAAACCTGACAACCAGACCTGCCACAGCCTATGCAGGGATGAGGTGATCACATGGGTGGACACCATCGTG
AAAGATGACCAGGAGGCTGTGCTATGTTTCTACAAAACCGCCAAGGACTGCGTCATGATGTTACCTATGTGGAG
CTCCCCAGTGGGAAGTCCAACCTGACCGTCTCAGGGAGCCAGAGTGTGGAACACCCCCAACGCCATGACCATC
CTCCTGGCTGTGGTTCGGTAGCATCCTCCTTGTGGGCTTGCACTCCTGGCTATCTGGAAGCTGCTTGTCAACATC
CACGACCGGAGGGAGTTTGCAAAGTTTCAGAGCGAGCGATCCAGGGCCCGCTATGAAATGGCTTCAAAATCCATTA
TACAGAAAACCTATCTCCACGCACACTGTGGACTTCACCTTCAACAAGTTCAACAAATCCTACAATGGCACTGTG
GACTTGATGTTTCTTCTCCGAGGGGCTGGAGCGGGGATCTGATGAAAAGGTGAGACTGAAACGCCTTGACCGCT
GCTCGGCTTGATCACAGCTCCCTAGGTAGGCACCACAGAGAAGACCTTCTAGTGAGCCTGGGCCAGGAGCCCCACA
GTGCCTGTACAGGAAGGTGCCTGGCCATGTACCTGGCTGCTAGGCCAGAGCCATGCCAGGCTGCGTCCCTCCGA
GCTTGGGATAAAGCAAGGGGACCTTGGCACTCTCAGCTTTCCCTGCCACATCCAGCTTGTTGTCCCAATGAAATA
CTGAGATGCTGGGCTGTCTCTCCCTTCCAGGAATGCTGGGCCCCCAGCCTGGCCAGACAAGACGACTGTCAGGAA
GGGTCCGGAGTCTGTAAAACAGCATAACAGTTTGGCTTTTTTTCACATTGATCATTTTTATATGAAATAAAAAGATC
CTGCATTTATGGTGTAGTTCTGAGTCTGAGACTTTTCCGCGTGATGGCTATGCCTTGACACAGGTGTTGGTGA
TGGGGCTGTTGAGATGCCTGTTGAAGGTACATCGTTTGCAAATGTCAGTTTCTCTCCTGTCCGTGTTTGTGTTAG
TACTTTTATAATGAAAAGAAACAAGATTGTTTGGGATTGGAAGTAAAGATTAAACCAAAGAATTTGTGTTTGT
CTGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 217

MPRAPAPLYACLLGLCALLPRLAGLNICTSGSATSCEECLLIHPKCAWCSKEDFGSPRSITSRCDLRANLVKNGC
GGEIESPASSFHVLRSLPLSSKSGSAGWDVIQMTPOEIAVNLRPGDKTTTFQLQVRQVEDYPVDLYYLMDSL
KDDLDNIRSLGTKLAEEMRKLTSNFRLLGFGSFVDKDISPFSSYAAPRYQTNPCIGYKLPNCVPSFGFRHLLPLTD
RVDSFNEEVRKQVRVRNRDAPEGGFDAVLQAAVCKEKIGWRKDALHLLVFTTDDVPHIALDGKLGGLVQPHDGQC
HLNEANEYTASNQMDYPSLALLGEKLAENNINLIFAVTKNHMYLYKNFTALIPGTTVEILDGDSKNIIQLIINAY
NSIRSKVELSVWDQPEDLNLFFTATCQDGVSYPGQRKCEGLKIGDTASFEVSLEARSCPSRHEHVFAIRPVGFR
DSLEVGVTYNCTCGCSVGLPNSARCNGSGTYVCGLCCECPGYLGTRCECQDGENQSVYQNLCREAEGKPLCSGR
GDCSCNQCSCESEFGKIYGPFCECDNFSCARNKGVLCSGHGECHCGECKCHAGYIGDNCNCSTDISTCRGRDQ
ICSERGHCLCGQCQCTEPGAFGEMCEKCPTCPDACSTKRDCVECLLLHSGKPDNQTCHSLCRDEVITWVDTIVKD
DQEAVLCFYKTAKDCVMMFTYVELPSGKSNLTVLREPECGNTPNAMTILLAVVGSILLVGLALLAIWKLLVTIHD
RREFAKFQSERSRARYEMASNPLYRKPISTHTVDFTFNKSYNGTVD

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FIGURE 218

GCGGAGCGAGCCCTGAAAGGCTATAGGCGAGGGGGCGGGCTCCGCGGGGCCGGGCGAGGAGTCCAGAGAGCC**ATGG**
CCGCCCTGCGTGTCTGCTGTCTGCGCCCCGCGGCCCGCTGAGGCCCCCGGTTTCGCTGTCCCGCCTGGCGTCCCT
TCGCCCTCGGGTGCTAACTTTGAGTACATCATCGCAGAAAAAGAGGGAAGAATAACACCGTGGGGTTGATCCAAC
TGAACCGCCCCAAGGCCCTCAATGCACTTTGCGATGGCCTGATTGACGAGCTCAACCAGGCCCTGAAGATCTTCG
AGGAGGACCCGGCCGTGGGGGCCATTGTCCTCACCGGCGGGGATAAGGCCTTTGCAGCTGGAGCTGATATCAAGG
AAATGCAGAACCTGAGTTTCCAGGACTGTTACTCCAGCAAGTTCTTGAAGCACTGGGACCACCTCACCCAGGTCA
AGAAGCCAGTCATCGCTGCTGTCAATGGCTATGCCCTTTGGCGGGGGCTGTGAGCTTGCCATGATGTGTGATATCA
TCTATGCCGGTGAGAAGGCCAGTTTGCACAGCCGGAGATCTTAATAGGAACCATCCCAGGTGCGGGCGGCACCC
AGAGACTCACCCGTGCTGTTGGGAAGTCGCTGGCGATGGAGATGGTCCTCACCGGTGACCGGATCTCAGCCCAGG
ACGCCAAGCAAGCAGGTCTTGTGTCAGCAAGATTTGTCCTGTTGAGACACTGGTGGAGAAGCCATCCAGTGTGCAG
AAAAAATTGCCAGCAATTCTAAAATTGTAGTAGCGATGGCCAAAGAATCAGTGAATGCAGCTTTTGAAATGACAT
TAACAGAAGGAAGTAAGTTGGAGAAGAACTCTTTTATTCAACCTTTGCCACTGATGACCGGAAAGAAGGGATGA
CCGCGTTTGTGAAAAGAGAAAGGCCAACTTCAAAGACCAG**TGAGA**ACCAGCTGCCCCTGCTTCACACCTCTGCT
TGGAGAGGACAAGTGCAGCCTGTCAGTTTTAGAAGCAAGTAAATCATCCTCTTTTCAAGAGCAGTGTCCGTGGTG
TGCAGTTCCTCTCCAATTGCTGCGTGGTCGTGGCCCGACCTCTCACGGCATGACAGCCTTCGTACCCAGCCTGT
GAGGGTCCTGACTGGAGCACCTTCTAAATCTAAGATTCTGCTGAGGAGCCCCGCTGGTCCCTCTGGGCATGCTG
TGCTCGGACGGAAAGCGGGCCTGCGGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCTGAGGGAAACG
CTGTCTGCTGCCTTCATACAGATGCTGATTAAAGTGATAGCGATTTCAGATT

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FIGURE 219

MAALRVLLSCARGPLRPPVRCPAWRPFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKI
FEEDPAVGAIIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGCELAMMCD
IIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQC
AEKIASNSKIVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

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FIGURE 220

CAGATGCCAGAAGAACAACACTGTTGCTCTTGGTGGACGGGCCCAGAGGAATTCAGAGTTAAACCTTGAGTGCCTGCG
TCCGTGAGAATTCAGCATGGAATGTCTCTACTATTTTCTGGGATTTCTGCTCCTGGCTGCAAGATTGCCACTTGA
TGCCGCCAAACGATTTTCATGATGTGCTGGGCAATGAAAGACCTTCTGCTTACATGAGGGAGCACAATCAATTAAA
TGGCTGGTCTTCTGATGAAAATGACTGGAATGAAAACTCTACCCAGTGTGGAAGCGGGGAGACATGAGGTGGAA
AAACTCCTGGAAGGGAGGCCGTGTGCAGGCGGTCTGACCAGTGA CTACCAGCCCTCGTGGGCTCAAATATAAC
ATTTGCGGTGAACCTGATATTTCCCTAGATGCCAAAAGGAAGATGCCAATGGCAACATAGTCTATGAGAAGAACTG
CAGAAATGAGGCTGGTTTATCTGCTGATCCATATGTTTACAACCTGGACAGCATGGTCAGAGGACAGTGACGGGGA
AAATGGCACCGGCCAAAGCCATCATAACGTCTTCCCTGATGGGAAACCTTTTCTCACCACCCCGGATGGAGAAG
ATGGAATTTTCATCTACGTCTTCCACACACTTGGTCAGTATTTCCAGAAATTGGGACGATGTTTCAGTGAGAGTTTC
TGTGAACACAGCCAATGTGACACTTGGGCCTCAACTCATGGAAGTGA CTGTCTACAGAAGACATGGACGGGCATA
TGTTCCCATCGCACAAGTGAAAGATGTGTACGTGGTAACAGATCAGATTCCTGTGTTTGTGACTATGTTCCAGAA
GAACGATCGAAATTCATCCGACGAAACCTTCCCTCAAAGATCTCCCCATTATGTTTGATGTCTGATTTCATGATCC
TAGCCACTTCCCTCAATTATTCTACCATTAACTACAAGTGGAGCTTCGGGGATAATACTGGCCTGTTTGTTCAC
CAATCATACTGTGAATCACACGTATGTGCTCAATGGAACCTTCAGCCTTAACCTCACTGTGAAAGCTGCAGCACC
AGGACCTTGTCCGCCACCGCCACCACCACCCAGACCTTCAAAAACCCACCCCTTCTTTAGGACCTGCTGGTGACAA
CCCCCTGGAGCTGAGTAGGATTCTGATGAAAACCTGCCAGATTAACAGATATGGCCACTTTTCAAGCCACCATCAC
AATTGTAGAGGGAATCTTAGAGGTAAACATCATCCAGATGACAGACGTCTGATGCCGGTGCCATGGCCTGAAAG
CTCCCTAATAGACTTTGTGCTGACCTGCCAAGGGAGCATTCCACGGAGGTCTGTACCATCATTTCTGACCCAC
CTGCGAGATCACCCAGAACACAGTCTGCAGCCCTGTGGATGTGGATGAGATGTGTCTGCTGACTGTGAGACGAAC
CTTCAATGGGTCTGGGACGTACTGTGTGAACCTCACCTTGGGGGATGACACAAGCCTGGCTCTCACGAGCACCCCT
GATTTCTGTTCTTGACAGAGACCCAGCCTCGCCTTTAAGGATGGCAAACAGTGCCCTGATCTCCGTTGGCTGCTT
GGCCATATTTGTCACTGTGATCTCCCTCTTGGTGTACAAAAACACAAGGAATACAACCCAATAGAAAATAGTCC
TGGGAATGTGGTCAGAAGCAAAGGCCTGAGTGTCTTTCTCAACCGTGCAAAGCCGTGTTCTTCCCGGAAACCA
GGAAAAGGATCCGCTACTCAAAAACCAAGAATTTAAAGGAGTTTCTTAAATTTTCGACCTTGTTTCTGAAGCTCAC
TTTTCAGTGCCATTGATGTGAGATGTGCTGGAGTGGCTATTAACCTTTTTTCTTAAAGATTATTGTTAAATAGA
TATTGTGGTTTGGGGAAGTTGAATTTTTTATAGGTTAAATGTCATTTTAGAGATGGGGAGAGGGATTATACTGCA
GGCAGCTTCAGCCATGTTGTGAAACTGATAAAAGCAACTTAGCAAGGCTTCTTTTCATTATTTTTTATGTTTCAC
TTATAAAGTCTTAGGTAAC TAGTAGGATAGAAACACTGTGTCCGAGAGTAAGGAGAGAAGCTACTATTGATTAG
AGCCTAACCCAGGTTAACTGCAAGAAGAGGCGGGATACTTTAGCTTTCCATGTAACCTGTATGCATAAAGCCAAT
GTAGTCCAGTTTCTAAGATCATGTTCCAAGCTAACTGAATCCCACTTCAATACACACTCATGAACTCCTGATGGA
ACAATAACAGGCCCCAAGCCTGTGGTATGATGTGCACACTTGCTAGACTCAGAAAAAATACTACTCTCATAAATGG
GTGGGAGTATTTTGGTGACAACCTACTTTGCTTGGCTGAGTGAAGGAATGATATTCATATATTCATTTATTCCAT
GGACATTTAGTTAGTGCTTTTTATATACCAGGCATGATGCTGAGTGACACTCTTGTGTATATTTCCAAATTTTG
TATAGTCGCTGCACATATTTGAAATCATATATTAAGACTTTCCAAAGATGAGGTCCCTGGTTTTTTCATGGCAACT
TGATCAGTAAGGATTTACCTCTGTTTGTAACATAAACCATCTACTATATGTTAGACATGACATTCTTTTTCTCT
CCTTCTGAAAAATAAAGTGTGGGAAGAGACAAAAA

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FIGURE 221

MECLYYFLGFLLLAARLPDAAKRFHDVLGNERPSAYMREHNQLNGWSSDENDWNEKLYPVWKRGD MRWKN SWKG
GRVQAVLTSDSPALVGSNITFAVNLIFFRCQKEDANGNIVYEKNCRNEAGLSADPYVYNWTAWSESDGENG TGQ
SHHNVPDGDGKPFPHHPGWRWNFIYVFHTLGQYFQKLGRCSVRVSVNTANVT LGPQLMEVTVYRRHGRAYVPIAQ
VKDVYVVDQIPVFVTMFQKNDRNSSDETFLKDLPI MF DVL IHDPSHFLNYSTINYKWSFGDNTGLFVSTNHTVN
HTYVLNGTFSLNLT VKAAAPGPCPPPPPPPPRPSKPTPSLGPAGDNPLELSRIPDENCQINRYGHFQATITIVEGI
LEVNI IQMTDVLMPVPWPPESSLIDFVVTCQGS IPT EVCTIISDPTCEITQNTVCSPVDVDEMCLLTVRRTFNGSG
TYCVNLTLGDDTSLALTSTLISVPDRDPASPLRMANSALISVGCLAIFVTVISLLVYKKHKEYNPIENSPGNVVR
SKGLSVFLNRAKAVFFPGNQEKDPLLKNQEFKGS

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FIGURE 222

GCCGCTGCCACCGCACCCCGCC**ATCG**AGCGGCCGCTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCTCTCCTCTTCTCCTCTTCGGACACCTGCGGGCCCTGCGAGCCGGCCTCCTGCCCCGCCCT
GCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGGCGGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA
CATCTGGAATGTCACTGGTGGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAGGTGAAGGTGCCGAGCTA**TAA**ACCTCCAGAAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAAA

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FIGURE 223

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCCPMCARGEGEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCSDGTTYPSCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVGTGAQVYLSCEVIGIPTPVLINWNVKRGHYGVQRTTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGGQASASAKITVVDALHEIPVKKGEGAEI

[illegible]

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FIGURE 225

MERIPSAQPPPAACLPKAPGLEHGDLPGMYPAHMYQVYKSRRGIKRSSEDSKETYKLPHRLIEKKRRDRINECIAQL
KDLLPEHLKLTTLGHLEKAVVLELTCLKHVKALTNLIDQQQQKIIALQSGLQAGELSGRNVETGQEMFCSGFQTCA
REVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSRKPSDPAPKVMDFKEKPSSPAKGSEGPKNKNCVPVIQR
TFAHSSGEQSGSDTDTDSGYGGESEKGDLRSEQPCFKSDHGRRFTMGERIGAIKQESEEPPTKKNRMQLSDDEGH
FTSSDLISSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKWCWYPTSVPVLYPGLNASAAALSSFMNPDKISAPL
LMPQRLPSPLPAHPSVDSSVLLQALKPIPPNLNLETKD

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FIGURE 226

GGGGCGAGACCTACGACGCCGGCGAGCAGTGGCCGTTACGCCTAAAAAGATGGCGGTCTTGGCACCTCTAATTGC
TCTCGTGATTTCGGTGCCGCGACTTTCACGATGGCTCGCCCAACCTTACTACCTTCTGTGCGCCCTGCTCTCTGC
TGCCTTCCTACTCGTGAGGAAACTGCCGCCGCTCTGCCACGGTCTGCCACCCAACGCGAAGACGGTAACCCGTG
TGACTTTGACTGGAGAGAAGTGGAGATCCTGATGTTTCTCAGTGCCATTGTGATGATGAAGAACCGCAGATCCAT
CACTGTGGAGCAACATATAGGCAACATTTTCATGTTTAGTAAAGTGGCCAACACAATTCTTTCTTCCGCTTGGA
TATTCGCATGGGCCTACTTTACATCACACTCTGCATAGTGTTCTGATGACGTGCAAACCCCCCTATATATGGG
CCCTGAGTATATCAAGTACTTCAATGATAAAACCATTGATGAGGAACTAGAACGGGACAAGAGGGTCACTTGGAT
TGTGGAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTTGCCCTATCTATGCTGACCTCTCCCTTAAATA
CAACTGTACAGGGCTAAATTTTGGGAAGGTGGATGTTGGACGCTATACTGATGTTAGTACGCGGTACAAAGTGAG
CACATCACCCCTCACCAAGCAACTCCCTACCCTGATCCTGTTCCAAGGTGGCAAGGAGGCAATGCGGCGGCCACA
GATTGACAAGAAAGGACGGGCTGTCTCATGGACCTTCTCTGAGGAGAATGTGATCCGAGAATTTAACTTAAATGA
GCTATAACCAGCGGGCCAAGAACTATCAAAGGCTGGAGACAATATCCCTGAGGAGCAGCCTGTGGCTTCAACCCC
CACCACAGTGTCAGATGGGGAAAACAAGAAGGATAAATAAGATCCTCACTTTGGCAGTGCTTCCCTCTCCTGTCAA
TTCCAGGCTCTTTCCATAACCACAAGCCTGAGGTGCAGCTTTTATTTATGTTTTCCCTTTGGCTGTGACTGGGTG
GGGCAGCATGCAGCTTCTGATTTTAAAGAGGCATCTAGGGAATTGTCAGGCACCCTACAGGAAGGCCTGCCATGC
TTGTGGCCAACGTGTTTCACTGGAGCAAAGAAAGAGATCTCATAGGACGAGGGGGAAAATGGTTTTCCCTCCAAG
CTTGGGTCAGTGTGTTAACTGCTTATCAGCTATTCAGACATCTCCATGGTTTCTCCATGAAACTCTGTGGTTTCA
TCATTCCTTCTTAGTTGACCTGCACAGCTTGGTTAGACCTAGATTTAACCTAAGGTAAGATGCTGGGGTATAGA
ACGCTAAGAATTTTCCCCCAAGGACTCTTGCTTCCTCAAGCCCTTCTGGCTTCGTTTATGGTCTTCATTAAGT
ATAAGCCTAACTTTGTCGCTAGTCCTAAGGAGAAACCTTTAACACAAAGTTTTTATCATTGAAGACAATATTGA
ACAACCCCTATTTTGTGGGGATTGAGAAGGGGTGAATAGAGGCTTGAGACTTTCCTTTGTGTGGTAGGACTTGG
AGGAGAAATCCCCTGGACTTTCATAACCCTCTGACATACTCCCCACACCCAGTTGATGGCTTTCCGTAATAAAA
AGATTGGGATTTCTTTTG

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FIGURE 227

MAVLAPLIALVYSVPRLSRWLAQPYLLSALLSAAFLLRKLPPLCHGLPTQREDGNPCDFDWREVEILMFLSAI
VMMKNRRSITVEQHIGNIFMFSKVANTILFFRLDIRMGLLYITLCIVFLMTCKPPLYMGPEYIKYFNDKTIDEEL
ERDKRVTWIVEFFANWSNDCQSFAPYADLSLKYNCTGLNFGKVDVGRYTDVSTRYKVSTSPITKQLPTLILFQG
GKEAMRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKLSKAGDNIPEEQPVASTPTTVSDGENKKDK

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FIGURE 228

TGAGCGGGGGATG**ATG**CGCGCCGCGGAGGGTCAGGTCGTTTCTGCGCGGGCTCCCGGCGCTGCTACTGCTGCTGCT
CTTCCTCGGGCCCTGGCCCGCTGCGAGCCACGGCGGCAAGTACTCGCGGGAGAAGAACCAGCCCAAGCCGTCCCC
GAAACGCGAGTCCGGAGAGGAGTTCCGCATGGAGAAGTTGAACCAGCTGTGGGAGAAGGCCAGCGACTGCATCT
TCCTCCCGTGAGGCTGGCCGAGCTCCACGCTGATCTGAAGATACAGGAGAGGGACGAACCTCGCCTGGAAGAACT
AAAGCTTGACGGCTTGACGAAGATGGGGAGAAGGAAGCGAGACTCATAACGAACCTCAATGTCATCTTGGCCAA
GTATGGTCTGGACGGAAGAAGGACGCTCGGCAGGTGACCAGCAACTCCCTCAGTGGCACCCAGGAAGACGGGCT
GGATGACCCAGGCTGGAAAAGCTGTGGCACAAGGCGAAGACCTCTGGGAAATTCTCCGCGCAAGAACTGGACAA
GCTCTGGCGGGAGTTCTGCATCACAAAGAGAAAGTTACAGAGTACAACGTCCTGCTGGAGACCCTGAGCAGGAC
CGAAGAAATCCACGAGAACGTCATTAGCCCCTCGGACCTGAGCGACATCAAGGGCAGCGTCCTGCACAGCAGGCA
CACGGAGCTGAAGGAGAAGCTGCGCAGCATCAACCAGGGCCTGGACCGCTGCGCAGGGTCAGCCACCAGGGCTA
CAGCACTGAGGCTGAGTTTCGAGGAGCCCAGGGTGATTGACCTGTGGGACCTGGCGCAGTCCGCCAACCTCACGGA
CAAGGAGCTGGAGGCGTTCCGGGAGGAGCTCAAGCACTTCGAAGCCAAAATCGAGAAGCACAACTACTACCAGAA
GCAGCTGGAGATTGCGCACGAGAAGCTGAGGCACGCAGAGAGCGTGGGCGACGGCGAGCGTGTGAGCCGCAGCCG
CGAGAAGCACGCCCTGCTGGAGGGGCGGACCAAGGAGCTGGGCTACACGGTGAAGAAGCATCTGCAGGACCTGTC
CGGCAGGATCTCCAGAGCTCGGCACAACGAACCTC**TGA**AGGCACTGGGGAGCCCAGCCCGGCAGGGAAGAGGCCAG
CGTGAAGGACCTGGGCTCTTGGCCGTGGCATTTCCTGAGCAGCCCGCCGTCAGGGTGGCTGGGGCTGGCACGGG
TGTCGAGGCAGGAAGGATTGTTTCTGGTGACTGCAGCCGCTGCCGTCGCGACACAGGGCTTGGTGGTGGTAGCAT
TTGGGTCTGAGATCGGCCAGCTCTGACTGAAGGGGCTTGCTTCCACTCAGCATCAGCGTGGCAGTCACCACCC
CAGTGAGGACCTCGATGTCCAGCTGCTGTCAGGCTCTGATAGTCCTCTGCTAAACAACACGATTTACATAAAAAA
TCTTACACATCTGCCACCGGAAATACCATGCACAGAGTCCTTAAAAAATAGAGTGCAGTATTTAAACC

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FIGURE 229

MAPRRVRSFLRGLPALLLLLLFLGPWPAASHGGKYSREKNQPKPSPKRESGEEFRMEKLNQLWEKAQRLHLPVVR
LAELHADLKIQERDELAWKKLKLDGLDEDEGEKEARLIRNLNVILAKYGKDKDARQVTSNSLSGTQEDGLDDPR
LEKLWHKAKTSGKFSGEELDKLWREFLHHKEKVHEYNVLLETLSRTEEIHENVISPSDLSDIKGSVLHSRHTELK
EKLR SINQGLDRLRRVSHQGYSTAEFEPRVIDLWDLAQSANLTDKELEAFREELKHFEAKIEKHNHYQKQLEI
AHEKLRHAESVGDGERVSRSEKHALLEGRTKELGYTVKKHLQDLSGRISRARHNEL

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FIGURE 230

CGCGGCCGCGTTCGGACCTGTGGTCCCGGGTTTCTGCAGAGTCTACTTCAGAAGCGGAGGCACTGGGAGTCCGGTT
TGGGATTGCCAGGCTGTGGTTGTGAGTCTGAGCTTGTGAGCGGCTGTGGCGCCCCAACTCTTCGCCAGCATATCA
TCCCGGCAGGCGATAAACTACATTCAAGTTGAGTCTGCAAGACTGGGAGGAAGTGGGGTGATAAGAAATCTATTCA
CTGTCAAGGTTTATTGAAGTCAAAATGTCCAAAAAATCAGTGGCGGTTCTGTGGTAGAGATGCAAGGAGATGAA
ATGACACGAATCATTTGGGAATTGATTAAAGAGAACTCATTTTTCCCTACGTGGAATTGGATCTACATAGCTAT
GATTTAGGCATAGAGAATCGTGATGCCACCAACGACCAAGTCACCAAGGATGCTGCAGAAGCTATAAAGAAGCAT
AATGTTGGCGTCAAATGTGCCACTATCACTCCTGATGAGAAGAGGGTTGAGGAGTTCAAGTTGAAACAAATGTGG
AAATCACCAAATGGCACCATACGAAATATTCTGGGTGGCACGGTCTTCAGAGAAGCCATTATCTGCAAAAATATC
CCCCGGCTTGTGAGTGGATGGGTAAAACCTATCATCATAGGTCGTCATGCTTATGGGGATCAATACAGAGCAACT
GATTTTGTGTTTCTGGGCTGGAAAAGTAGAGATAACCTACACACCAAGTGACGGAACCCAAAAGGTGACATAC
CTGGTACATAACTTTGAAGAAGGTGGTGGTGTGTCATGGGGATGTATAATCAAGATAAGTCAATTGAAGATTTT
GCACACAGTTTCCTCCAGATGGCTCTGTCTAAGGGTTGGCCTTTGTATCTGAGCACCAAAAAACTATTCTGAAG
ATATATGATGGGCGTTTTAAAGACATCTTTCAGGAGATATATGACAAGCAGTACAAGTCCAGTTTGAAGCTCAA
AAGATCTGGTATGAGCATAGGCTCATCGACGACATGGTGGCCCAAGCTATGAAATCAGAGGGAGGCTTCATCTGG
GCCTGTAAAACTATGATGGTGACGTGCAGTCGGACTCTGTGGCCCAAGGGTATGGCTCTCTCGGCATGATGACC
AGCGTGCTGGTTTGTCCAGATGGCAAGACAGTAGAAGCAGAGGCTGCCACGGGACTGTAACCCGTCCTACTACCGC
ATGTACCAGAAAGGACAGGAGACGTCCACCAACCTCATTGCTTCCATTTTTGCCTGGACCAGAGGGTTAGCCAC
AGAGCAAAGCTTGATAACAATAAAGAGCTTGCCCTCTTTGCAAATGCTTTGGAAGAAGTCTCTATTGAGACAATT
GAGGCTGGCTTCATGACCAAGGACTTGGCTGCTTGCAATTAGAGGTTTACCCAATGTGCAACGTTCTGACTACTTG
AATACATTTGAGTTTATGGATAAACTTGGAGAAAACTTGAAGATCAAAGTCTAGCTCAGGCCAAACTTTTAAGTTTCT
ACCTGAGCTAAGAAGGATAATTGTCTTTTTGGTAACTAGGTCTACAGGTTTACATTTTTCTGTGTTTACACTCAAGG
ATAAAGGCAAAATCAATTTTGTAATTTGTTTAGAAGCCAGAGTTTATCTTTTCTATAAGTTTACAGCCTTTTTCT
TATATATACAGTTATTGCCACCTTTGTGAACATGGCAAGGGACTTTTTTACAATTTTTATTTTATTTTCTAGTAC
CAGCCTAGGAATTCGGTTAGTACTCATTTGTATTCACTGTCACTTTTTCTCATGTTCTAATTATAAATGACCAA
ATCAAGATTGCTCAAAAGGGTAAATGATAGCCACAGTATTGCTCCCTAAAATATGCATAAAGTAGAAATTCAGT
CCTTCCCCCTCCTGTCCATGACCTTGGGCACAGGGAAGTTCTGGTGTCTAGATATCCCGTTTTGTGAGGTAGAGC
TGTCATTAACTTGCACATGACTGGAACGAAGTATGAGTGCAACTCAAATGTGTTGAAGATACTGCAGTCATTT
TTGTAAAGACCTTGCTGAATGTTTCCAATAGACTAAATACTGTTTAGGCCGCAGGAGAGTTTGGAATCCGGAATA
AATACTACCTGGAGTCTTGTCTCTCCATTTTTCTCTTCTCCTCCTGGCCTGGCCTGAATATTATACTACTCTA
AATAGCATATTTTATCCAAGTGCAATAATGTAAGCTGAATCTTTTTTGGACTTCTGCTGGCCTGTTTTATTTCTT
TTATATAAATGTGATTTCTCAGAAATTGATATTAAACACTATCTTATCTTCTCCTGAACTGTTGATTTTAATTAA
AATTAAGTGCTAATTACCAAAAAAAAAA

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FIGURE 231

MSKKISGGSVVEMQGDEMTRIIWELIKEKLIFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKHNVGVKCAT
ITPDEKRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVSGWVKPIIIIGRHAYGDQYRATDFVVP GPG
KVEITYTPSDGTQKVTYLVHNFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPLYLSTKNLTKIYDGRFKD
IFQEIYDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGFIWACKNYDGDVQSDSVAQGYGSLGMMTSVLVCPDG
KTVEAEAAHGTVTRHYRMYQKGQETSTNLIASIFAWTRGLAHRKLDNNKELAFFANALEEVSIETIEAGFMTKD
LAACIRGLPNVQRSDYLNTEFEFMDKLGENLKIKLAQAKL

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FIGURE 232

CAGGTGGGAGGTTAGTGTGGCCCGGGCGTCCGCTCCTCAGCGGATGTGGCAGCCCCGAGCCATGGCTCTCGCCGT
CCGAGTCGTTTATTGTGGCGCTTGAGGCTACAAGTCCAAGTATCTTCAGCTCAAGAAGAAGTTAGAAGATGAGTT
CCCCGGCCGCTGGACATCTGCGGCGAGGGAACTCCCCAGGCCACCGGGTTCTTTGAAGTGATGGTAGCCGGGAA
GTTGATTCACTCTAAGAAGAAAGGCGATGGCTACGTGGACACAGAAAGCAAGTTTCTGAAGTTGGTGGCCGCCAT
CAAAGCCGCCTTGGCTCAGGGCTAATGCGCCCTGAAGGCAGAGTCCAGGGACCTTGACCCAGCCCCTCTCAGCAG
ACGCTTCATGATAGGAAGGACTGAAAAGTCTTGTGGACACCTGGTCTTTCCCTGATGTTCTCGTGGCTGCTGTTG
GGGGCAGAGATTGACGCCCCCGGTCTTTGCCTCTGAGCGGGAGAGTCTGTGTGTATGTGTCTTCCCCGGAATCCA
CACCACCCACCCCTCCTCCTGTCCCGTGGTTTCATCATATCTCTTTCATACCCCATGTCTTCCCCAGTTGTCCC
CTGGAGTTTGGGGGACATCCCGCCTCAGGCATCCTTCTCAAGGGGAAGCCAAGAGAGGCATCAGGATGGGTGGG
TTTCTGATTGTGGCAACGTTTGCAACCGTTCACGATTCAATAAATATTGGATGAAATTAACCGGAAAAAAAAAA
AAAAAAA

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FIGURE 233

MALAVRVVYCGAXGYKSKYLQLKKKLEDEFPGRLDICGEGTPQATGFFEVMVAGKLIHSKKKGDGYVDTESKFLK
LVAAIKAALAQG

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FIGURE 234A

GTCCTTTACGCGTGCTTTCGTGTTGGTGCGCTTTTCACTGGTCATAAAGTGCTGCTCACGGCCGTGAACTGCTA
CAGCGTGAAGGCCGCCACCCGGGTCCAGGATGCTTTTGCCGCCGCCAAGCTCCTGGCCCTGGCCCTGATCATCCT
GCTGGGCTTCGTCCAGATCGGGAAGGGTGATGTGTCCAATCTAGATCCCAAGTTCTCATTTGAAGGCACCAA
GGATGTGGGGAACATTGTGCTGGCATTATACAGCGGCCTCTTTGCCTATGGAGGATGGAATTACTTGAATTTTCGT
CACAGAGGAAATGATCAACCCCTACAGAAACCTGCCCCGGCCATCATCATCTCCCTGCCCATCGTGACGCTGGT
GTACGTGCTGACCAACCTGGCCTACTTCACCACCCTGTCCACCGAGCAGATGCTGTCTGTCGAGGCCGTGGCCGT
GGACTTCGGGAACATATCACCTGGGCGTCATGTCTGGATCATCCCCGTCTTCGTGGGCTGTCTGCTTTGGCTC
CGTCAATGGGTCCCTGTTACATCCTCCAGGCTCTTCTTCGTGGGGTCCCGGGAAGGCCACCTGCCCTCCATCCT
CTCCATGATCCACCCACAGCTCCTCACCCCGTGCCGTCCCTCGTGTTACGTGTGTGATGACGCTGCTCTACGC
CTTCTCCAAGGACATCTTCTCCGTATCAACTTCTTCAGCTTCTTCAACTGGCTCTGCGTGGCCCTGGCCATCAT
CGGCATGATCTGGCTGCGCCACAGAAAGCCTGAGCTTGAGCGGCCCATCAAGGTGAACCTGGCCCTGCCTGTGTT
CTTCATCCTGGCCTGCCTCTTCTGATCGCCGTCTCCTTCTGGAAGACACCCGTGGAGTGTGGCATCGGCTTCAC
CATCATCCTCAGCGGGCTGCCCGTCTACTTCTTCGGGGTCTGGTGGAAAAACAAGCCCCAAGTGGCTCCTCCAGGG
CATCTTCTCCACGACCGTCTGTGTGAGAAGCTCATGCAGGTGGTCCCCAGGAGACATAGCCAGGAGGCCGAGT
GGCTGCCGGAGGAGCATGCGCAGAGGCCAGTTAAAGTAGATCACCTCCTCGAACCCACTCCGGTTCCCGCAACC
CACAGCTCAGCTGCCCATCCAGTCTCTCGCCGTCCCTCCCAGGTGCGGCAGTGGAGGCTGCTGTGAAAACCTCTGG
TACGAATCTCATCCCTCAACTGAGGGCCAGGGACCCAGGTGTGCCTGTGCTCCTGCCAGGAGCAGCTTTTGGTC
TCCTTGGGCCCTTTTTCCCTTCCCTCCTTTGTTTACTTATATATATATTTTTTTTTTAAACTTAAATTTTGGGTCAA
CTTGACACCACTAAGATGATTTTTTAAAGGAGCTGGGGGAAGGCAGGAGCCTTCCCTTCTCCTGCCCAAGGGCCC
AGACCCTGGGCAAACAGAGCTACTGAGACTTGGAACCTCATTGCTACCACAGACTTGCCTGAAGCCAGACAGCT
GCCCAGACACATGGGCTTGTGACATTCTGTGAAAACCAACCCTGTGGGCTTATGTCTCTGCCTTAGGGTTTGCAGA
GTGGAACCTCAGCCGTAGGGTGGCACTGGGAGGGGTGGGGGATCTGGGCAAGGTGGGTGATTCTCCAGGAGG
TGCTTGAGGCCCCGATGGACTCCTGACCATAATCCTAGCCCCGAGACACCATCCTGAGCCAGGGAACAGCCCCAG
GGTTGGGGGGTGGCGCATCTCCCTAGCTCACCAGGCCTGGCCTCTGGGCAGTGTGGCCTCTTGGCTATTTCTG
TTCCAGTTTTTGAGGCTGAGTTCTGTTTCATGCAGACAAAGCCCTGTCTTCAGTCTTCTAGAAACAGAGACAAG
AAAGGCAGACACACCGCGGCCAGGCACCCATGTGGGCGCCACCCCTGGGCTCCACACAGCAGTGTCCCCTGCCCC
AGAGGTGCGCAGCTACCCTCAGCCTCCAATGCATTGGCCTCTGTACCGCCCGGCAGCCCCCTTCTGGCCGGTGTCTGG
GTTCCTCACTCCCGGCCTAGGCACCTCCCCGCTCTCCCTGTCTACGCTCATGTCTGTCTCTGGTCTGATGCCCGTT
GTCTAGGAGACAGAGCCAAGCACTGCTCACGTCTCTGCCGCTGCGTTTGGAGGCCCTGGGCTCTCACCCAGTC
CCCACCCGCTGTCAGAGAGGGAACCTAGGGCACCCCTTGTTTCTGTTGTTCCCGTGAATTTTTTTCGCTATGGGAG
GCAGCCGAGGCTGGCCAATGCGGCCCACTTTCTGAGCTGTCTGCTGCCCTCCATGGCAGCAGCCAAGGACCCCCA
GAACAAGAAGACCCCCCGCAGGATCCCTCCTGAGCTCGGGGGGCTCTGCCTTCTCAGGCCCCGGGCTTCCCTTC
TCCCCAGCCAGAGGTGGAGCCAAGTGGTCCAGCGTCACTCCAGTGCTCAGCTGTGGCTGGAGGAGCTGGCCTGTG
GCACAGCCCTGAGTGTCCCAAGCCGGGAGCCAACGAAGCCGGACACGGCTTCACTGACCAGCGGCTGCTCAAGCC
GCAAGCTCTCAGCAAGTGCCAGTGGAGCCTGCCGCCCCACCTGGGCACCGGGACCCCTCACCATCCAGTGGG
CCCGGAGAAACCTGATGAACAGTTTGGGGACTCAGGACCAGATGTCCGTCTCTCTTGCTTGAGGAATGAAGACCT
TTATTACCCCTGCCCGTTTGCTTCCCGCTGCACATGGACAGACTTCACAGCGTCTGCTCATAGGACCTGCATCC
TTCTGGGGACGAATTCACCTCGTCCAAGGGACAGCCACGGTCTGGAGGCCGAGGACCACCAGCAGGCAGGTGG
ACTGACTGTGTTGGGCAAGACCTCTTCCCTCTGGGCTGTTCTCTTGCTGCAAATAAGGACAGCAGCTGGTGGC
CCACCTGCCTGGTGCATTGCTGTGTGAATCCAGGAGGCAGTGGACATCGTAGGCAGCCACGGCCCCAGGTCCAGG
AGAAGTGCTCCCTGGAGGCACGGACCACTGCTTCCCACTGGGGCCGGCGGGGGCCACGCACGACGTCAGCCTCTT
ACCTTCCCGCTCGGCTAGGGGTCTCGGGATGCCGTTCTGTTCCAACCTCCTGTTCTGGGAGGTGGACATGCCT
CAAGGATACAGGGAGCCGGCGGCCTCTCGACGGCACGCACTTCTGTTGGCTGCTGCGGCTGTGGGCGAGCATGG
GGGCTGCCAGCGTCTGTTGTGAAAGTAGCTGCTAGTGAATGGCTGGGGCCGCTGGGGTCCGTCTTCACTGC
GCAGGTCTCTTCTGGGCGTCTGAGCTGGGGTGGGAGCTCCTCCGAGAAGGTTGGTGGGGGTCCAGTCTGTGAT
CCTTGCTGTGTGTGCCCCACTCCAGCCTGGGGACCCCACTTCAGAAGGTAGGGGCCGTGTCCCGGGTGTGAC
TGAGGCCTGCTTCCCCCTCCCCCTCCTGCTGTGCTGGAATTCACAGGGACCAGGGCCACCGCAGGGGACTGTCT
CAGAAGACTTGATTTTTCCGTCCCTTTTTCTCCACACTCCACTGACAAACGTCCCCAGCGTTTTCCACTTGTGGG

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FIGURE 234B

CTTCAGGTGTTTTCAAGCACAACCCACCACAACAAGCAAGTGCATTTTCAGTCGTTGTGCTTTTTTGTTTTGTGC
TAACGTCTTACTAATTTAAAGATGCTGTCGGCACCATGTTTATTTATTTCCAGTGGTCATGCTCAGCCTTGCTGC
TCTGCGTGGCGCAGGTGCCATGCCTGCTCCCTGTCTGTGTCCCAGCCACGCAGGGCCATCCACTGTGACGTCGGC
CGACCAGGCTGGACACCCTCTGCCGAGTAATGACGTGTGTGGCTGGGACCTTCTTTATTCTGTGTTAATGGCTAA
CCTGTTACACTGGGCTGGGTTGGGTAGGGTGTTCCTGGCTTTTTTGTTGGGTTTTTATTTTTTAAAGAAACACTCAA
TCATCCTAG

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FIGURE 235

MINPYRNLP LAIIISLP I VTLVYVL TNLAYFTTLSTEQMLSSEAVAVDFGNYHLGVMSWII PVFVGLSCFGSVNG
SLFTSSRLFFVGSREGHLPSILSMIHPQLLTPVPSLVFTCVMTLLYAFSKDIFSVINFFSFFNWLCVALAIIGMI
WLRHRKPELERPIKVNLA LPVFFILACLFLIAVSFWKTPVECGIGFTIILSGLPVYFFGVWWKNKPKWLLQGIFS
TTVLCQKLMQVVPQET

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FIGURE 236

GCGGCCGCCGGGACTCTTCCTGGAGACACCGCCATGGCCGGGCTATCCCGCGGGTCCGCGCGCGCACTGCTCGCC
GCCCTGCTGGCGTCGACGCTGTTGGCGCTGCTCGTGTGCGCCGCGCGGGGTCGCGGGCGGCCGGGACCACGGGGAC
TGGGACGAGGCCTCCCGGCTGCCGCGCTACCACCCCGCGAGGACGCGGCGCGCGTGGCCCGCTTCGTGACGCAC
GTCTCCGACTGGGGCGCTCTGGCCACCATCTCCACGCTGGAGGCGGTGCGCGGCCGGCCCTTCGCCGACGTCCTC
TCGCTCAGCGACGGGCCCCCGGGCGGGGCGGGGCGGGCGTGCCTATTTCTACCTGAGCCCGCTGCAGCTCTCCGTG
AGCAACCTGCAGGAGAATCCATATGCTACACTGACCATGACTTTGGCACAGACCAACTTCTGCAAGAAACATGGA
TTTGATCCACAAAGTCCCTTTTGTTTACATAATGCTGTCAGGAAGTGTGACCAAGGTGAATGAAACAGAAATG
GATATTGCAAAGCATTTCGTTATTCATTGACACCCTGAGATGAAAACCTGGCCTTCAGCCATAATTGGTTCTTT
GCTAAGTTGAATATAACCAATATCTGGGTCTGGACTACTTTGGTGGACCAAAAATCGTGACACCAGAAGAATAT
TATAATGTCACAGTTCAGTGAAGCAGACTGTGGTGAATTTAGCAACACTTATGAAGTTTCTTAAAGTGGCTCATA
CACACTTAAAAAGGCTTAATGTTTCTCTGAAAGCGTCCCAGAATATTAGCCAGTTTTCTGTACATGCTGGTTTTG
TTTGCTTGCTTGTTTACTTGCTTGTTTACCAATAGAGTTGACCTGTTATTGGATTTCTGGAAGATGTGGTAGCT
ACTTTTTTCTTATTTTGAAGCCATTTTCTGAGAGAAATATCCTTCACTATAATCAAATAAGTTTTGTCCCATCAA
TTCCAAAGATGTTTCCAGTGGTGCTCTTGAAGAGGAATGAGTACCAGTTTTAAATTGCCATTGGCATTGGAAGG
TAGTTGAGTATGTGTTCTTTATTCCTAGAAGCCACTGTGCTTGGTAGAGTGCATCACTCACCACAGCTGCCTCCT
GAGCTGCCTGAGCCTGGTGCAAAGGATTGGCCCCCATTATGGTGCTTCTGAATAAATCTTGCCAAGATAGACAA
ACAATGATGAACTCAGATGGAGCTTCCTACTCATGTTGATTTATGCTCACAATCCTGGGTATTGTTAATTCAA
CATAGGTGAACTATTTCTGATAAAGAACTTTTGAAAACTTTTTATACTCTAAAGTGATACTCAGAAACAAAAG
AAAGTCATAAACTCCTGAATTTAATTTCCCCACCTAAGTCGAGACAGTATTATCAAAACACATGTGCACACAGA
TTATTTTTTGGCTCCAAACTGGATTGCAAAGAAAGAGGAGAAGAATATTTTGTGTGTTCTGGTATTCTTTTA
TAAGTAAAGTTTACCCAGGCATGGACCAGCTTCAGCCAGGGACAAAATCCCCTCCCAACCACTCTCCACAGCTT
TTTAAAAATACTTCTACTCTTAACAATTACCTAAGGCTTCCTCAACTGCCCCAAATCTCTTAATAGCTTCTAGTG
CTGCTACAATCTAAGTCAGGTCACCAGAGGGAAGAGAACATGGCATTAAAGAATCACATCTTCAGAAGAGAAGA
CACTAATATTATTACCATATACATGATTTTCAAGATGACATAAGATTCTCTTAAAGAGGAAATGTCAGGAAT
CAAGCCACTGAATCCTTAAAGAGAAAAGTTGAATATGAGTCATTGTGTCTGAAAAGTCAAAGTGAAGTAACTG
AGATCCAGCAAACAGGTTCTGTTTAAAGAAAAATAATTTATACTAAATTTAGTAAAATGGACTTCTTATTCAAAGC
ATCAATAATTAAAGAATTATTTTAAAAAAAAAAAAAAAAA

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FIGURE 237

MAGLSRGSARALLAALLASTLLALLVSPARGRGGRDHGDWDEASRLPPLPPREDAARVARFVTHVSDWGALATIS
TLEAVRGRPFADVLSLSDGPPGAGSGVPYFYLSPLQLSVSNLQENPYATLTMTLAQTNFCKKHGFDQPSPLCVHI
MLSGTVTKVNETEMDIAKHSLEFIRHPEMKTWPS SHNWFFAKLNI TNIWVLDYFGGPKIVTPEEYYNVTVQ

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FIGURE 238

CCCCCTTGGTTCCGCCCCGCGCGTCACGTGACCCCAGCGCCTACTTGGGCTGAGGAGCCGCCGCGTCCCCCTCGCCGA
GTCCCCCTCGCCAGATTCCCTCCGTCGCCGCCAAGATGATGTGCGGGGCGCCCTCCGCCACGCAGCCGGCCACCGC
CGAGACCCAGCACATCGCCGACCAGGTGAGGTCCCAGCTTGAAGAGAAAGAAAACAAGAAGTTCCCTGTGTTTAA
GGCCGTGTCATTCAAGAGCCAGGTGGTCGCGGGGACAACTACTTCATCAAGGTGCACGTCGGCGACGAGGACTT
CGTACACCTGCGAGTGTTCCAATCTCTCCCTCATGAAAACAAGCCCTTGACCTTATCTAACTACCAGACCAACAA
AGCCAAGCATGATGAGCTGACCTATTTCTTGATCCTGACTTTGGACAAGGCCCTTCAGCCAGAAGACTGACAAAGT
CATCCTCCGTCTACCAGAGCGTGCACTTGTGATCCTAAAATAAGCTTCATCTCCGGGCTGTGCCCTTGGGGTGG
AAGGGGCAGGATTCTGCAGCTGCTTTTGCATTTCTTCTCCTAAATTTTCATTGTGTTGATTTCTTCTCCTTCCAAT
AGGTGATCTTAATTACTTTCAGAATATTTTCAAATAGATATATTTTTTAAATCCTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 239

MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFIKVHVGDEDFVHLRVFQSLPH
ENKPLTLSNYQTNKAKHDELTYP

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FIGURE 240

AGGTCTCAGCCGGTCGTCGCGACGTTGCCCCGCTCGCTCTGAGGCTCCTGAAGCCGAACTAGCTAGACTTTCCCT
CCTTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTCGAGGCGCGCCTGGTCCAGGGCTCCAT
CCTCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAA
CCTGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTACCG
CTGCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGCAATGAAGA
TATCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAAGT
TTCAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGAATTCCAGAACAGGAGTACAGCTGTGT
AGTAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTC
CTGTGCAAAAAGACGGAGTGAAATTTCTGCAAGTGGAGAACTTGGAAATGGAAACATTAAATTGTCACAGACAAG
TAATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCAGTGAAGTA
CCTGAACTTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGT
TGTAAGATATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATC
TTAGGCATTCTTAAAATTCAAGAAAATAAACTAAGCTCTTTGAGAACTGCTTCTAAGATGCCAGCATATACTGA
AGTCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTT
TCTCTATTCTCTCCAATTTGTTTAAAGAATAAAGTCCAAAGTCTGATCTGGTCTAGTTAACCTAGAAGTATTTTT
GTCTCTTAGAAAATACTTGTGATTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTAAGAAGTGTTTT
GAATTTAAATAAAGTTACTTGAATTTCAAAC

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FIGURE 241

MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSHVSLVQLTLRSEGFDYRCDRNLAMGVNLTSM
SKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARICRD
LSHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPLSSTV
TLMSADVPLVVEYKIADMGHLKYYLAPKIEDEEGS

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FIGURE 242

CATGCAGTATGGAAACAAAACAATCTCCACCATGAAAGTGATGCAGTTTCAGGGTATGAAACGCAAAGCCAGTTC
TCCCGTCCCCCTACCTCCAGTCACACACCTTGACCTCAGCCCCAGCCCTGATGTGCCTCTCACCATCATGAAAAG
GAAACTGATGAACACCAATGATCTGGAGGAGTCCAGGCAGCTCACGGAGGAGATCCAGCGGCATCTGGATGCCAG
GCACCTCATTGAGAAGTCAGTGCGTAAGATCGTCTCCTTGCTGGCAGCGTCCGAGGCTGAGGTGGAGCAGCTCCT
GTCCGAGAGAGCCCCGCTCACGGGGCACAGCTGCTACCCAGAGGCCCTGCTGCACTTCCGACCCACTGCTTCAA
CTGGCACTCCCCACGTACGAGTATGCGTTGAGACATTTGTACGTGCTGGTCAACCTTTGTGAGAAGCCGTATCC
GCTTCACAGGATAAAAATTGTCCATGGACCACGTGTGCCTTGGTCACTACTGAAGAGCTGCCTCCTGGAAGCTTTT
CCAAGTGTGAGCGCCCCACCGACTGTGTGCTGATCAGAGACTGGAGAGGTGGAGTGAGAAGTCTCCGCTGCTCGG
GCCCTCCTGGGGAGCCCCGCTCCAGGGCTCGCTCCAGGACCTTCTTCACAAGATGACTTGCTCGCTGTTACCTG
CTTCCCCAGTCTTTTCTGAAAACTACAAATTAGGGTGGGAAAAGCTCTGTATTGAGAAGGGTCATATTTGCTTT
CTAGGAGGTTTGTGTTTTGCCTGTTAGTTTTGAGGAGCAGGAAGCTCATGGGGGCTTCTGTAGCCCCTCTCAA
AGGAGTCTTTATTCTGAGAATTTGAAGCTGAAACCTCTTTAAATCTTCAGAATGATTTTATTGAAGAGGGCCGCA
AGCCCCAAATGGAAAAGTGTGTTTTAGAAAATATGATGATTTTTGATTGCTTTTGTATTTAATTCTGCAGGTGTTT
AAGTCTTAAAAAATAAAGATTTATAACAGACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 243A

CGATTAATCCTCCAGTTGGTTGTCCCTGCCGTCTCGGAAGGGTTAGCACACAGCCAGGTCTGTTTTTGATGTATG
TAATTGAAGATTTATAAAGAAAAGCTTCTCCTCTGCCTCATCCACAGTCATTTTTTTTCCAATGCCAGTTCCCAG
CAGGCATATAAATATTGGTCGTTCTCAGAGCTGGGATGCTGCTGGGTGGTACGAGGGCCCCCTGGGAGAACGCCGA
GTCCCTGCGGCCCTCTGGGGAGGAGAAGCTCCCTGACGTATGGCACAGCAGAGGGGACTTGGTTTTGAGCCAAACCA
CCGACCACAGGACGCTGCCCTGCCCGTGGCCGCCGAGCCCTACCTGTACCGGGAGGCCGTTTTATAACTCAGTGGC
TGCAAGAAAGGGGTCTACTCCTGACTTCACCTTCTACGACAGCAGACAGGCAGTGATGTCTGGTCGCAGCCCCCT
GCTGCCACGGGAGTACTACAGTGATCCGTCTGGAGCTGCTAGGGTACCCAAAGAGCCTCCCTCTATCGGGACCC
AGGAGTCAGCCGGCCGGTCCCCAGCTACGGAGTGCTTGGCAGCAGAACGTCATGGGATCCAATGCAAGGCCGGTC
ACCTGCCCTGCAGGACGCCGGTCACCTGTACCGGGATCCTGGAGGTAATGATCCCTCAGGGGCGGCAGACACA
GAGCAGGGCTGCATCTCCCGGGCGGTATGGACGGGAGCAGCCCGACACCAGGTATGGGGCGGAGGTGCCTGCCTA
CCCCCTCAGCCAGGTCTTCAGCGACATCAGCGAAAGACCCATTGACCTGCCCTGCCAGACAGGTGGCCCCGAC
GTGCCTGGTTGTGGACCCCAAGTTCAGCTGCTGCCCCGAAGGCAGCACAGGGGTGGCCCCAGGGGCCCTGAATCG
TGGCTACGGGCCTGCCGGGAAAGCATCCCATCCAAGATGGCTTACGAGACTTACGAAGCTGACCTGTCCACCTT
CCAGGGTCTTGGTGGCAAGAGGACCGTGCTCCCTGAGTTCCTGGCCTTTCTGCGGGCGGAGGGGCTGGCAGAGGC
CACGCTGGGAGCCCTACTGCAGCAGGGCTTTGACTCCCCGGCCGTCTGGCTACCTGGAGGACGCGGATATCAA
GTCTGTGCGCACCCAACCTGGGCCAGGCCCGTGTCTGAGCCGCTGGCCAATAGCTGCAGGACCGAAATGCAGCT
GCGGAGGCAGGACCGGGGGGGCCCGTCCCCCGGGCGCGGTCCAGCAGCTTACGCCACCGAAGCGAACTGCTCCA
TGGTGACTTGGCTTCTCTGGGCGCTGCGGCTCCTCTGCAGACAGCATCCCCCGAGCTGGAGACCCGGCTCGCCG
TCCCTCCAGCGCACCATCTCAGCACCTCCTGGAGACGGCAGCCACCTATTCTGCCCCCTGGCGTGGGCACCCATGC
CCCACACTTCCCCCTCCAACCTCCGGGTACAGCTCTCCACCCCTTGCGCCCTGACAGCGCGTCTGAGCCCCACGCA
CCCCCTGCAGGCAGGGGTGGCCTTGACTAACCCGGGCCCCCTCAAACCCCTTACCCAGGCCCCAGAACAGCTTA
CTCCACGGCATACACGGTGCCCATGGAGCTGCTAAAGAGGGAGCGCAACGTGGCCGCTCTCCGCTGCCAGCCC
TCACGGCAGCCCCCAGGTCTTGCGGAAGCCAGGTGCACCCCTGGGGCCATCCACCCTGCCGCGGCCAGCCAGAG
CCTCCACACGCCTCACTCACCGTACGAGAAGGTGGCCCGCGCACAGGGGCACCCATCATCGTGTCCACCATGCT
TGCACCAAGAACAGTATCCGCCCCCAGATCATGAACGGCCCCCTGCACCCCCGCCCCCTGGTGGCGCTGCTGGA
CGGCCGCGACTGCACTGTGGAGATGCCATCCTGAAGGACCTGGCCACTGTGGCCTTCTGTGACGCGCAGTCGAC
GCAGGAAATCCACGAGAAGGTTCTAAACGAAGCCGTGGGCGCCATGATGTACCACACCATCACCTTCAACAGGGA
GGACCTGGAGAAGTTCAAGGCCCTGAGAGTGATCGTGCGGATAGGCAGTGGCTATGACAACGTGAACATCAAGGC
TGCCGGCGAGCTCGGAATTGCCGTGTGCAACATCCCGTCTGCAGCCGTGGAAGAGACAGCGGACTCTACCATCTG
CCACATCCTCAACCTGTACCGGAGGAACACGTGGCTGTACCAGGCACCTGCGGGAAGGCACGCGGGTTTCAGAGCGT
GGAGCAGATCCGCGAGGTGGCCTCGGGAGCGGCCCGCATCCGTGGGGAGACGCTGGGCCTCATTGGCTTTGGTCG
CACGGGGCAGGCGGTTGCAGTTCGAGCCAAGGCCTTTGGATTACGCGTCATATTTTATGACCCCTACTTGCAGGA
TGGGATCGAGCGGTCCCTGGGCGTGCAGAGGGTCTACACCCTGCAGGATTGTCTGTATCAGAGCGACTGCGTCTC
CTTGCACTGCAATCTCAACGAACATAACCACCACCTCATCAATGACTTTACCATAAAGCAGATGAGGCAGGGAGC
ATTCTTTGTGAACGCAGCCCGTGGCGGCCTGGTGGACGAGAAAAGCCTTAGCACAAGCCCTCAAGGAGGGCAGGAT
ACGAGGGGGCAGCCCTCGACGTGCATGAGTCAGAGCCCTTCAGCTTTGCTCAGGGTCCGTTGAAAGATGCCCCGAA
TCTCATCTGCACTCCTCACACTGCCTGGTACAGTGAGCAGGCGTCACTGGAGATGAGGGAGGCAGCTGCCACCGA
GATCCGCGGAGCCATCACAGGTGCGATCCCAGAAAGCTTAAGAAATTGTGTGAACAAGGAATTCTTTGTACATC
AGCGCCTTGGTCAGTAATAGACCAGCAAGCAATTCATCCTGAGCTCAATGGTGCCACATACAGATATCCGCCAGG
CATCGTGGGTGTGGCTCCAGGAGGACTTCCCTGCAGCCATGGAAGGGATCATCCCTGGAGGCATCCCAGTGACTCA
CAACCTCCCGACAGTGGCACATCCTTCCCAAGCGCCCTCTCCCAACCAGGCCACAAAACACGGGGACAATCGAGA
GCACCCCAACGAGCAATAGCAGAGAATGCCAGAAGGTAATCACTCAGATACACTTGGGACCAAGAGACAGTGAAA
AATAGATGAACATAAGAGAAAAAGAATCGGATGGTCTTTGTAACCTGATTCTGGACATATGCATCATTGATGTTGCA
GTGTTGAAACTACAAGAGCTAGAAAAGTGAAGATGTCGTCTGCTTACGGAAGCGCTGAAAGACTAGGATGTGATT
TATTAACGACCAACTTCTGTTATTGTGTGTTAAGTTTTTCATCTGTGCATCAAATCACAAAAGAATAAATAGAG
CTTTTTCTTTATCAGTCCCTTGGGCACAGCAGGTCTGAACACCCTGCTCTACAATGTTGCATCAAGAGTTCAA
ACAACAAAATAAAAAATATTAAGAGGAAATCCCCATCCTGTGACTTGAGTCCCTTAAGTCTACAGGGGCTGGGTG
ACCTCTTTTTTGCTAATAGGAAAATCACATTACTACAAAATGGGGAAAAAACTGTTTGCCTGTGGTAGACACCTGC

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FIGURE 243B

ACGCATAGGATTGAAGACAGTACAGGCTGCTGTACAGAGAAGCGCCTCTCACATCTGAACTGCATACTGAGCGGG
CAAGTCGGTTGTAAGTTCAGTAAACCCCTCTGATGATGCAAAAAAAAAAAAAAAAAAGTATTAAGTTTCACAAGCTGT
TTGTACTCAAATATATTTTCTCAGTTTCAG

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FIGURE 244

MPVPSRHINIGRSQSWDAAGWYEGPWENAESLRPLGRRSSLTYGTAEGTWFEPNHRPQDAALPVAAEPYLYREAV
YNSVAARKGSTPDFTFYDSRQAVMSGRSPLLPREYYSDPSGAARVPKEPPLYRDPGVSRPVPSYGVLSRTSWDP
MQGRSPALQDAGHLYRDPGGKMIPQGRQTQSRAASPGRYGREQPDTRYGAEVPAYPLSQVFSDISERP IDPAPAR
QVAPTCLVVDPSAAAPEGSTGVAPGALNRGYGPARESIPSKMAYETYEADLSTFQGGPGKRTVLPEFLAFLRAE
GLAEATLGALLQQGFDSPAVLATLEDADIKSVAPNLGQARVLSRLANSCRTEMQLRRQDRGGPLPRARSSSF SHR
SELLHGDLASLGAAAPLQTASPRAGDPARRPSSAPSQHLLETAATYSAPGVGTHAPHFPSNSGYSSPTPCALTAR
LSPTHPLQAGVALTNPGPSNPLHFGPRTAYSTAYTVPMELLKRERNVAASPLPSPHGSPQVLRKPGAPLGPSTLP
PASQSLHTPHSPYEKVARRTGAPI IIVSTMLAPEPSIRPQIMNGPLHPRPLVALLDGRDCTVEMP ILKDLATVAF
DAQSTQEIHEKVLNEAVGAMMYHTITFNREDLEKFKALRVIVRIGSGYDNVNIKAAGELGIAVCNIPSAAVEETA
DSTICHILNLYRRNTWLYQALREGTRVQSVEQIREVASGAARIRGETLGLIGFGRTGQAVAVRAKAFGFSVIFYD
PYLQDGIERSLGVQRVYTLQDLLYQSDCVSLHCNLNEHNHHLINDFTIKQMRQGAFLVNAARGGLVDEKALAQAL
KEGRIRGAALDVHESEPF SFAQGPKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIPESLRNCVNKE
FFVTSAPWSVIDQQAHPPELNGATYRYPPGIVGVAPGGLPAAMEGIIPGGIPVTHNLPTVAHPSQAPSPNQPTKH
GDNREHPNEQ

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FIGURE 245

CGGCATGTGGAAGAAGGTGAAGATGGCGGTGGCCAGGGCCGGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATC
CCGGAACGTGATGCCGCTGGGCGCACGGACAGCCTCCCACATGACCAAGGACATGTTCCCGGGGCCCTATCCTAG
GACCCCAGAAGAACGGGCCGCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGA
TGGCATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGA
CCAGCCGGGCCCTGAGGTTGAACTGGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGTGGA
TACATCCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCTTTCATGATATTCAT
GTGCTGGGTGGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACAATAATCTGTACCT
GGAACGAGGCGGTGATCCCTCCAAAGAACCAGAGCGGGTGGTTCACCTATGAGATCTGAGGAGGCTTCGTGGGCTT
TTGGGTCCTCTAACTAGGACTCCCTCATTCTAGAAAATTTAACCTTAATGAAATCCCTAATAAACTCAGTGCTG
TGTTAAAAAAAAA

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FIGURE 246

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGPYPRTPPEERAAAAKKYNMRVEDYEPYPDDGMGYGDY
PKLPDRSQHERDPWYSWDQPGLRLNWGEPMHWHLDMYNRRNRVDTSPVPSWHVMCMQLFGFLAFMIFMCWVGDVY
PVYQPVGPKQYPYNNLYLERGGDPSKEPERVVHYEI

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FIGURE 247

GAATTCATGCTAAATTGCTGGAAGGCTGCGTCTCTGCTGTGGTGTCTAGTTCGGGATGCCTCATCGCCAGGGGCGC
GCCGCAGCCACCCACCCTCCGGACCGCGGCAGCTGCTGACCCGCCATCGCC**ATG**GGCCCGCGGGAAAGCCAAGGAG
GAGGGCAGCTGGAAGAAATTCATCTGGAACCTCAGAGAAGAAGGAGTTTCTGGGCAGGACCGGTGGCAGTTGGTTT
AAGATCCTTCTATTCTACGTAATATTTTATGGCTGCCTGGCTGGCATCTTCATCGGAACCATCCAAGTGATGCTG
CTCACCATCAGTGAAATTTAAGCCACATATCAGGACCGAGTGGCCCCGCCAGGATTAACACAGATTCTCTCAGATC
CAGAAGACTGAAATTTCTTTTCGTCCTAATGATCCCAAGAGCTATGAGGCATATGTACTGAACATAGTTAGGTTC
CTGGAAAAGTACAAAGATTTCAGCCCAGAGGGATGACATGATTTTTGAAGATTGTGGCGATGTGCCCAGTGAACCG
AAAGAACGAGGAGACTTTAATCATGAACGAGGAGAGCGAAAGGTCTGCAGATTCAAGCTTGAATGGCTGGGAAAT
TGCTCTGGATTAAATGATGAACTTATGGCTACAAAGAGGGCAAACCGTGCATTATTATAAAGCTCAACCGAGTT
CTAGGCTTCAAACCTAAGCCTCCCAAGAATGAGTCCTTGGAGACTTACCCAGTGATGAAGTATAACCCAAATGTC
CTTCCCGTTTCAGTGCCTGGCAAGCGAGATGAAGATAAGGATAAAGTTGGAAATGTGGAGTATTTTGGACTGGGC
AACTCCCTTGGTTTTCTCTGCAGTATTATCCGTACTATGGCAAACCTCTGCAGCCCAAATACCTGCAGCCCCCTG
CTGGCCGTACAGTTCACCAATCTTACCATGGACACTGAAATTCGCATAGAGTGTAAAGCGTACGGTGAGAACATT
GGGTACAGTGAGAAAGACCGTTTTTCAGGGACGTTTTGATGTAAAAATTGAAGTTAAGAGCT**TGAT**CACAAGCACAA
ATCTTTCCCACTAGCCATTTAATAAGTTAAAAAAGATACAAAAACAAAAACCTACTAGTCTTGAACAAACTGTC
ATACGTATGGGACCTACACTTAATCTATATGCTTTACACTAGCTTTCTGCATTTAATAGGTTAGAATGTAAATTA
AAGTGTAGCAATAGCAACAAAATATTTATTCTACTGTAAATGACAAAAGAAAAAGAAAAATTGAGCCTTGGGACG
TGCCCATTTTTACTGTAAATTATGATTCCGTAAGTACCTTGTAGTAAGCAGTGTCTTGGCCCCCTAAGTATTGC
TGCTTGTGTATTTTATTTAGTGTACAGTACTACAGGTGCATACTCTGGTCATTTTTCAAGCCATGTTTTATTTGT
ATCTGTTTTCTACTTTATGTGAGCAAGGTTTGTGTCCAAGGTGTAAATATTCAACGGGAATAAAACTGGCATGG
TAATTTTTTTTTTTTTGTTTGTGTTTTTGTGTTTTTGGCTCTTCAAAGGTAATGGCCCATCGATGAGCATTTTTAAC
ATACTCCATAGTCTTTTCTGTGGTGTTAGGTCTTTATTTTTATTTTTTCTGGGGGCTGGGGTGGGGGTTTGT
CATGGGGGAAGTGGCCTTTAAATTTTAAGTGACACTACAGAAAAACAAAAAGGTGATGGGTGTGTTATGCTT
GTATTGAATGCTGTCTTGACATCTCTTGCCCTGTCTCCGGTATGTTCTAAAGCTGTGTCTGAGATCTGGATCTG
CCCATCACTTTGGCCTAGGGACAGGGCTAATTAATTTGCTTTATACATTTTCTTTTACTTTCTTTTTCTTTCTTCT
TGGAGGCATCACATGCTGGTGTCTGTGTCTTTATGAATGTTTTAACCATTTTCATGGTGGAAGAATTTTATATTTA
TGCAGTTGTACAATTTTATTTTTTCTGCAAGAAAAAGTGTAATGTATGAAATAAACCAAAGTCACTTGTGTTGAA
AATAAATCTTTATTTTGAACCTTTATAAAAGCAATGCAGTACCCCATAGACTGGTGTTAAATGTTGTCTACAGTGC
AAAATCCATGTTCTAACATATGTAATAATTGCCAGGAGTACAGTGCTCTTGTGATCTTGTATTTCAGTCAGGTTA
AAACAACGGACAATAAAAGAATGAACCGAATTC

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FIGURE 248

MARGKAKEEGSWKKFIWNSEKKEFLGRTGGSWFKILLFYVIFYGCLAGIFIGTIQVMLLTISEFKPTYQDRVAPP
GLTQIPQIQKTEISFRPNPKSYEAYVLNIVRFLEKYKDSAQRDDMIFEDCGDVPSEPKERGDFNHERGERKVCR
FKLEWLGNC SGLNDETYGYKEGKPCII I KLN RVLGFKPKPPKNESLETYPVMKYNPVLPVQCTGKRDEDKDKVG
NVEYFGLGNSPGFPLQYYPYYGKLLQPKYLQPLLAVQFTNLTMDTEIRIECKAYGENIGYSEKDRFQGRFDVKIE
VKS

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FIGURE 249

GCTTTGTTGCCTGAGTAACCGTATGATGGTGGTGGTGGTGGTGTCTTCCTGTCTCAACGATACCTATTTTCTAGT
GCTGAGATCCTGAGACA**ATGA**ATCATAGTGAAAGATTTCGTTTTTCATTGCAGAGTGGTATGATCCAAATGCTTCAC
TTCTTCGACGTTATGAGCTTTTATTTTACCCAGGGGATGGATCTGTTGAAATGCATGATGTAAAGAATCATCGCA
CCTTTTTTAAAGCGGACCAAATATGATAACCTGCACTTGGAAAGATTTATTTATAGGCAACAAAGTGAATGTCTTTT
CTCGACAACCTGGTATTAATTGACTATGGGGATCAATATACAGCTCGCCAGCTGGGCAGTAGGAAAGAAAAACGC
TAGCCCTAATTAAACCAGATGCAATATCAAAGGCTGGAGAAATAATTGAAATAATAAACAAAGCTGGATTTACTA
TAACCAAACTCAAAATGATGATGCTTTCAAGGAAAGAAGCATTGGATTTTCATGTAGATCACCAGTCAAGACCCT
TTTTCAATGAGCTGATCCAGTTTATTACAACCTGGTCTATTATTGCCATGGAGATTTTAAAGAGATGATGCTATAT
GTGAATGGAAAAGACTGCTGGGACCTGCAAACTCTGGAGTGGCACGCACAGATGCTTCTGAAAGCATTAGAGCCC
TCTTTGGAACAGATGGCATAAGAAATGCAGCGCATGGCCCTGATTCTTTTGCTTCTGCGGCCAGAGAAATGGAGT
TGTTTTTTTCCTTCAAGTGGAGGTTGTGGGCCGGCAAACACTGCTAAATTTACTAATTGTACCTGTTGCATTGTTA
AACCCCATGCTGTCTAGTGAAGGACTGTTGGGAAAGATCCTGATGGCTATCCGAGATGCAGGTTTTGAAATCTCAG
CTATGCAGATGTTCAATATGGATCGGGTTAATGTTGAGGAATTCTATGAAGTTTATAAAGGAGTAGTGACCGAAT
ATCATGACATGGTGACAGAAATGTATTCTGGCCCTTGTGTAGCAATGGAGATTCAACAGAATAATGCTACAAAGA
CATTTTCGAGAATTTTGTGGACCTGCTGATCCTGAAATTGCCCGGCATTTACGCCCTGGAACCTCTCAGAGCAATCT
TTGGTAAAACCTAAGATCCAGAATGCTGTTCCTGTACTGATCTGCCAGAGGATGGCCTATTAGAGGTTCAATACT
TCTTCAAGATCTTGGATAAT**TAGT**GGTGTGGAAAGTAAAGAAGTCACAGGTTGGGACATTTAGACAAGAGTGAAT
CACACACGAGGAATGTGTTCAATCTTTTATTGTCCGTTGTTTTAACCTGACTGAATACAAGATCAACAAGAGCAC
TGTACTCCTGGCAATTATTACATATGTTAGAACATGGATTTTGCCTGTAGACAACATTTAACACCAGTCTATGG
GGTACTGCATTGCTTTTTTATAAAGTTCAAAATAAAGATTTATTTTCAAAC

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FIGURE 250

MNHSERFVFIAEWYDPNASLLRRYELLFYPGDGSVEMHDVKNHRTFLKRTKYDNLHLEDLFIGNKVNVFSRQLVL
IDYGDQYTARQLGSRKEKTLALIKPDAISKAGEIIIEINKAGFTITKLKMMMLSRKEALDFHVDHQSRPFFNELI
QFITTGPIIAMEILRDDAICEWKRLGPNANSGVARTDASESIRALFGTDGIRNAAHGPD SFASAAREMELFFPSS
GGCGPANTAKFTNCTCCIVKPHAVSEGLLGKILMAIRDAGFEISAMQMFNMDRVNVEEFYEVYKGVVTEYHDMVT
EMYSGPCVAMEIQQNNATKTFREFCGPADPEIARHLRPGTLRAIFGKTKIQNAVHCTDLPEDGLLEVQYFFKILD
N

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FIGURE 251

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCACCCGCTCTTGGCTCCTCTCCTCTAGGCCGTCGCTTTTCGG
GTTCTCTCATCGCTTCGTCGTTTCGCCAATGTTTGAGGAGAAGGCCAGCAGTCCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAAGAAACAAAGAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGGCCTGAATATATTTACACACGTCCTTGAGATGTATAATATACTAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAGATAGCAAGCCAATTAAAGTCACTTTGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGGAAAACCTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGGAGCTT
CTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAGGCATGGAA
AGAGTCTATGGTGGATGTTTATGCTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGTCTAGCAATGATTTCTTCTCTGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGACTGGAAGTTAAGAAAGAACTTTACTGGCAATGTTTAAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACCTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCTCATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAATTCCTCCACGTACTGGGAAGGCAAAGCAGATATG
GAGACTCTCCAGAGAATTTATGGCATTTCATTCCCAGATCCTAAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAACTATATTTCTTTTATGAACCTCAGCCCTGGA
AGTTGCTTTTTTCTGCCAAAAGGAGTCTATATTTATAATGCACTTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGGATTCCAGGAGGTAGTCACCCCAAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAACCTGCCAGGACAC
TCCCTTATGTTTGATCATCGGCCAAGGTCCTGGCGAGAACTGCCTCTGCGGCTAGCTGATTTTGGGGGTCTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGGATTTTCTACGTACGGTATATAGCGTATTTGGA
TTTTCTTTTAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTTGAAAACAGTCTGAATGAATTTGGTGAAAAGTGGGAGTTAACTCTGGAGATGGAGCTTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACCAGTGTGCAACCATCCAGCTGGATTTCCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGAGGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAAGAATGATTGCTATCCTCACAGAAAACCTATGGGGGCAAATTGGCCCCCTTTTGG
CTGTCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCAAAACGTACGACAACAA
TTCCACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAGATTGAAATGCA
CAGTTAGCACAGTATAACTTCATTTTAGTTGTTGGTGAAAAAGAGAAAATCACTGGCACTGTTAATATCCGCACA
AGAGACAATAAGGTCCACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGC
AGCAAACAGGCAGAAGAAGAATTTTAAATGAAAAAATTACCCAGATTGGCTCCATGGAAAAGGAGGAACAGCGTTT
CCGTAAAATTGACTTTGTACTCGAAAACGTCAATTTATATTGAACTTGGAGGAGGAGTTTGGCAAAGTCTGAAAT
AGGTCAACCTGCAGGCGTAACTATTTTTGACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTTAA
AGAGAGCCAATAAAATGATTTTACTCATTTCAGTATCTGAGTACTGGAAGTGAAACATGAGGAATGCTTTAGTGTA
ATGTGGGAGAACTTTTTTGTAATTTAATGCAATTGAAAAAGTTTTCAAATTCAATTAAGATAACTAGAAATGGT
TATGGTGTAACCCGAATTC

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FIGURE 252

MGGEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILA EKA EKDSKPIKVTL
PDGKQVDAESWKTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLELLKFEDEEAQAVYWHSSAHIMG
EGMERVYGGCLCYGPPIENGFIYDMYLEEGGVSSNDFSSLEALCKKIIKEKQAFERLEVKKETLLAMFKYNKFKC
RILNEKVNTPTTTVYRCGPLIDLRCRGPVHRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGISFPDPKMLKEWE
KFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLEPKGVYIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSG
HWQHYSNMFSFEVEKELFALKPMNCPGHSLMFDHRPRSWRELPLRLADFGGLHRNELSGALTGLTRVRRFQQDD
AHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDI EVWDQAEKQLENSLNEFG EKWELNSGDG
AFYGP KIDIQIKDAIGRYHQCATIQ LDFQLPIRFNLTYVSHDGEDKKRPVIVHRAILGSVERMIAILTENYGGKL
APFWLSPRQVMVVPVGPTCDEYAQNVRQQFHD AKFMADIDLDPGCTLNKKIRNAQLAQYNFILVVGEKEKITGTV
NIRTRDNKVHGERTISETIERLQQLKEFRSKQAE EEF

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FIGURE 253A

GAATTCGGGTGGAGTCCTGAAGGAGGGCCTGATGTCTTCATCATTCTCAAATTCCTGTAAGCTCTGCGTCGGGTG
AAACCAGACAAAGCCGCGAGCCCAGGGATGGGAGCACGCGGGGGACGGCCTGCCGGCGGGGACGACAGCATTGCG
CCTGGGTGCAGCAGTGTGCGTCTCGGGGAAGGGAAGATATTTTAAAGGCGTGTCTGAGCAGACGGGGAGGCTTTTC
CAAACCCAGGCAGCTTCGTGGCGTGTGCGGTTTTCGACCCGGTCACACAAAGCTTCAGCATGTCTATGTGAGGACGG
TCGGGCCCTGAAAGGAACGCTCTCGGAATTGGCCCGCGAAACCGATCTGCCCGTTGTGTTTGTGAAACAGAGAAA
GATAGGCGGCCATGGTCCAACCTTGAAGGCTTATCAGGAGGGCAGACTTCAAAGCTACTAAAAATGAACGGCCC
TGAAGATCTTCCCAAGTCCTATGACTATGACCTTATCATCATTGGAGGTGGCTCAGGAGGTCTGGCAGCTGCTAA
GGAGGCAGCCCAATATGGCAAGAAGGTGATGGTCTCGACTTTGTCACTCCCACCCCTCTTGGAAC TAGATGGGG
TCTTGAGGAACATGTGTGAATGTGGGTTGCATACCTAAAAAACTGATGCATCAAGCAGCTTTGTTAGGACAAGC
CCTGCAAGACTCTCGAAATTATGGATGGAAAGTCGAGGAGACAGTTAAGCATGATTGGGACAGAATGATAGAAGC
TGTACAGAATCACATTGGCTCTTTGAATTGGGGCTACCGAGTAGCTCTGCGGGAGAAAAAAGTCGTCTATGAGAA
TGCTTATGGGCAATTTATTGGTCCTCACAGGATTAAGGCAACAAATAATAAAGGCAAAGAAAAAATTTATTACGC
AGAGAGTTTTCTCATTGCCACTGGTGAAAGACCACGTTACTTGGGCATCCCTGGTGACAAAGAATACTGCATCAG
CAGTGATGATCTTTTCTCCTTGCCTTACTGCCCGGGTAAGACCCTGGTTGTTGGAGCATCCTATGTCGCTTTGGA
GTGCGCTGGATTCTTGCTGGTATTGGTTTTAGGCGTCACTGTTATGGTTAGGTCCATTCTTCTTAGAGGATTTGA
CCAGGACATGGCCAACAAAATTGGTGAACACATGGAAGAACATGGCATCAAGTTTATAAGACAGTTTCGTACCAAT
TAAAGTTGAACAAAATTGAAGCAGGGACACCAGGCCGACTCAGAGTAGTAGCTCAGTCCACCAATAGTGAGGAAAT
CATTGAAGGAGAATATAATACGGTGATGCTGGCAATAGGAAGAGATGCTTGCACAAGAAAAATTGGCTTAGAAAC
CGTAGGGGTGAAGATAAATGAAAAGACTGGAATAATACCTGTACAGATGAAGAACAGACCAATGTGCCTTACAT
CTATGCCATTGGCGATATATTGGAGGATAAGGTGGAGCTCACCCACAGTTGCAATCCAGGCAGGAAGATTGCTGGC
TCAGAGGCTCTATGCAGGTTCCACTGTCAAGTGTGACTATGAAAAATGTTCCAACCCTGTATTTACTCCTTTGGA
ATATGGTGCTTGTGGCCTTTCTGAGGAGAAAGCTGTGGAGAAGTTTGGGGAAGAAAAATATTGAGGTTTACCATAG
TTACTTTTGGCCATTGGAATGGACGATTCCGTCAAGAGATAACAACAAAATGTTATGCAAAAATAATCTGTAATAC
TAAAGACAATGAACGTGTTGTGGGCTTTACGTAAGTGGGTCCAAATGCTGGAGAAGTTACACAAGGCTTTGCAGC
TGCGCTCAAATGTGGACTGACCAAAAAGCAGCTGGACAGCACAAATGGAATCCACCCTGTCTGTGCAGAGGTATT
CACAACATTGTCTGTGACCAAGCGCTCTGGGGCAAGCATCCTCCAGGCTGGCTGCTGAGAGTTAAGCCCCAGTGTG
GATGCTGTTGCCAAGACTGCAAACCACTGGCTCGTTTTCCGTGCCCAAATCCAAGGCGAAGTTTCTAGAGGGTTC
TTGGGCTCTTGGCACCTGCGTGTCTGTGCTTACCACCGCCCAAGGCCCCCTTGGATCTCTTGGATAGGAGTTGG
TGAATAGAAGGCAGGCAGCATCACACTGGGGTCACTGACAGACTTGAAGCTGACATTTGGCAGGGCATCGAAGGG
ATGCATCCATGAAGTCACCAGTCTCAAGCCCATGTGGTAGGCGGTGATGGAACAACGTGCAAAATCAGTTTTAGCA
TGACCTTTCTTGTGGATTTTCTTATTCTCGTTGTCAAGTTTTCTAGGGTTGAATTTTTTCTTTTTTCTCCATG
GTGTTAATGATATTAGAGATGAAAAACGTTAGCAGTTGATTTTTGTCCAAAAGCAAGTCATGGCTAGAGTATCCA
TGCAAGGTGTCTTGTTCATGGAAGGGATAGTTTGGCTCCCTTGGAGGCTATGTAGGCTTGTCGCGGGAAGAGA
ACTGTCTGCAGCTGAAATGGACTGTTCTTTACTGACCTGCTCAGCAGTTTCTTCTCTCATATATTTCCAAAACA
AGTACATCTGCGATCAACTCTAGCCAAATTTGCCCTGTGTGCTACATGATGGATGATTATTTTAAAGGTCTG
TTTAGGAAGGGAAATGGCTACTTGGCCAGCCATTGCCTGGCATTGGTAGTATAGTATGATTCTCACCATTATTT
GTCATGGAGGCAGACATACACCAGAAATGGGGGAGAAACAGTACATATCTTTCTGTCTTTAGTTTATTGTGTGCT
GGTCTAAGCAAGCTGAGATCATTGCAATGGAAAACACGTAACCTTGTTTTAAAGTTTTTCTGGTAGCTTTAGCTT
TATGCTAAAAAAATAATGACATTGGGTATCTATTTCTTTCTAAGACATACATTAGTAGGAAAAATAAGTCTTTTC
ATGCTTATGATTTAGCTGTTTTGTGGTAATGCTTTTTTAAAGGAAGTTATTAATATCATAAGTTATTATTAATAT
TTTGAACACAGGTGGATGTGAAGGATTTTCATTTAAAAACCAAGTGGTTTTTGACTTTTTCTGTTGAATGAACAAC
TGTGCCTTGTGGAATTTTTGCAGAAGTGTATTATGCTTTGTGTAGCATTTCAACTTGCAATTATTATAAGAGGTATT
AATGCCTCAGTTATGTGTTTGTCAATGTACTGGCTGAGGATTCTATCTCAGCTGTCTTTTCTAACTGTGTAGGTT
GAGTTTTGAACACGTGCTTGTGGACATCAGCCTCCTGCCAGCAGTTCTTGAAGCTTCTTTTTTCATTCTCTGCTACT
CTACCTGTATTTCTCAGTTGCAGCACTGAGTGGTCAAAATACATTTCTGGGCCACCTCAGGGAACCCATGCATCT
GCCTGGCATTTAGGCAGCAGAGCCCTGACCGTCCCCACAGGCTCTGCCTCACGTCTCATCTCATTGGCTGT
GTAAAGAAATGGGAAAAGGGAAAAGGAGAGAGCAATTGAGGCAGTTGACCATATTCAGTTTTATTATTTATTTT
TAATTTGTTTTTTTTCTCCAAGTCCACCAGTCTCTGAAATTAGAACAGTAGGCGGTATGAGATAATCAGGCCTAAT

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FIGURE 253B

CATGTTGTGATTCTCTTTTCTTAGTGGAGTGGAATGTTCTATCCCACAAGAAGGATTATATCTTATAGACTTGT
CTTGTTTCAGATTCTGTATTTACCCATTTTATTGAAACATATACTAAGTTCCATGTATTTTGTACAAATCTTCT
GAAAAAAAAACAAAACAATGTGAAACATTAAAATTAAAAGGCATTAATAATAAAAAAAAAAAAAAAAAACCCGAATT
C

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FIGURE 254

MNGPEDLPKSYDYDLIIIGGGSGGLAAAKEAAQYGKKVMVLDFVTPTPLGTRWGLGGTCVNVGCIPKKLMHQAAL
LGQALQDSRNYGWKVEETVKHDWDRMIEAVQNHIGSLNWGYRVALREKKVVYENAYGQFIGPHRIKATNNKGKEK
IYSAESFLIATGERPRYLGIPGDKEYCISDDDLFSLPYCPGKTLVVGASYVALECAGFLAGIGLVTVMVRSILL
RGFDQDMANKIGEHMEEHGIKFIRQFVPIKVEQIEAGTPGRLRVVAQSTNSEEIIEGEYNTVMLAIGRDACTRKI
GLETVGVKINEKTGKIPVTDEEQTNVPYIYAIGDILEDKVELTPVAIQAGRLLAQRLYAGSTVKCDYENVPTTVF
TPLEYGACGLSEEKAVEKFGEENIEVYHSYFWPLEWTIPSRDNNKCYAKIICNTKDNERVVGFHVLGPNAGEVTQ
GFAAALKCGLTKKQLDSTIGIHPVCAEVFTTLSVTKRSGASILQAGC

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FIGURE 255

CGGCCACGAGGCGGAATCCCTTCTGCTCTCCCAGCGCAGCGCCGCCGCCCGCCCCCTCCAGCTTCCCGGACCATG

GCCAACTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGCGGCCTGGTGGGCGAGATCATCAAG
CGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCCTCTGAAGAACACCTGAAGCAGCAC
TACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCAGGGCCGGTTGTGGCCATG
GTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGACCAATCCAGCAGATTCAAAGCCA
GGCACCATTTCGTGGGGACTTCTGCATTTCAGGTTGGCAGGAACATCATTTCATGGCAGTGATTTCAGTAAAAAGTGCT
GAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTAT
GAATAAGAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCCTGGACACAGCTCTTCATTCCAT
TGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTTGCCAATAAAGCTTTTGGAAGCCGG

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FIGURE 256

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA
MVWEGNLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV
YE

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FIGURE 257

GAAGGCCGCACCGTACTGGGCGGGGGTCTGGGGAGCGCAGCAGCCATGGCAAGCCGTCTCCTGCTCAACAACGGC
GCCAAGATGCCCATCCTGGGGTTGGGTACCTGGAAGTCCCCTCCAGGGCAGGTGACTGAGGCCGTGAAGGTGGCC
ATTGACGTCGGGTACCGCCACATCGACTGTGCCCATGTGTACCAGAATGAGAATGAGGTGGGGGTGGCCATTGAG
GAGAAGCTCAGGGAGCAGGTGGTGAAGCGTGAGGAGCTCTTCATCGTCAGCAAGCTGTGGTGCACGTACCATGAG
AAGGGCCTGGTGAAGGAGCCTGCCAGAAGACACTCAGCGACCTGAAGCTGGACTACCTGGACCTCTACCTTATT
CACTGGCCGACTGGCTTTAAGCCTGGGAAGGAATTTTTCCATTGGATGAGTCGGGCAATGTGGTTCCCAGTGAC
ACCAACATTCTGGACACGTGGGCGGCCATGGAAGAGCTGGTGGATGAAGGGCTGGTGAAGCTATTGGCATCTCC
AACTTCAACCATCTCCAGGTGGAGATGATCTTAAACAAACCTGGCTTGAAGTATAAGCCTGCAGTTAACCAGATT
GAGTGCCACCCATATCTCACTCAGGAGAAGTTAATCCAGTACTGCCAGTCCAAAGGCATCGTGGTGACCGCCTAC
AGCCCCCTCGGCTCTCCTGACAGGCCCTGGGCCAAGCCCGAGGACCCTTCTCTCCTGGAGGATCCCAGGATCAAG
GCGATCGCAGCCAAGCACAATAAACTACAGCCCAGGTCTGATCCGGTTCCCCATGCAGAGGAACTTGGTGGTG
ATCCCCAAGTCTGTGACACCAGAACGCATTGCTGAGAACTTTAAGGTCTTTGACTTTGAACTGAGCAGCCAGGAT
ATGACCACCTTACTCAGCTACAACAGGAACTGGAGGGTCTGTGCCTTGTTGAGCTGTACCTCCCACAAGGATTAC
CCCTTCCATGAAGAGTTTTTGAAAGCTGTGGTTGCCTGCTCGTCCCCAAGTGACCTATACCTGTGTTTCTTGCCTCA
TTTTTTTCCCTTGCAAATGTAGTATGGCCTGTGTCACTCAGCAGTGGGACAGCAACCTGTAGAGTGGCCAGCGAGG
GCGTGTCTAGCTTGATGTTGGATCTCAAGAGCCCTGTCAGTAGAGTAGAAGTCTCTTCCAGTTTGCTTTGCCCTT
CTTTCTACCCTGCTGGGGAAAGTACAACCTGAATACCCTTTTCTGACCAAAGAGAAGCAAAATCTACCAGGTCAA
AATAGTGCCACTAACGGTTGAGTTTTGACTGCTTGGAAGTGAATCCTTTCAGCAAGACTTCTCTTTGCCTCAAA
TAAAAAGTGCTTTTGTG

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FIGURE 258

MASRLLLNNGAKMPI LGLGTWKSP PGQVTEAVKVAIDVGYRHIDCAHVYQNE NEVGVAIQEKLREQVVKREELFI
VSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILD TWAAMEELVD
EGLVKAIGISN FNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKL IQYCQSKGIVVTAYSPLGSPDRPWAKPED
PSLLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFELSSQDMTTLLSYNRNWRVCA
LLSCTSHKDYPFHEEF

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FIGURE 259

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTTCGGTGGGTTCCCGTGCGGCGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
CGAGTCGCGGCCGGGGCTGGACGGGCGCCGCGGCGGGGCTGGAGGCGCGACCGCCGCGCCCCGAGCGGGAATCA
GAACGGCGCCGAGGGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAATAATGTTTCGTTGGTGGCCTGA
GCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAATAAAAA
TGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGAAGGTCC
TAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGGACCCGG
TCAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAAGTCCCACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGT
TTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCACCT
TTAAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAAGCAAGTGTGAGATCA
AGGTGGCCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGTGGAAACCGCAACCGAGGGA
ACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTCAGAGTCAGAGTTGGAATCAGGGCTACGGCAACTACTGGA
ACCAGGGCTACGGCTACCAGCAGGGCTACGGGCCTGGCTATGGCGGCTACGACTACTCGCCCTATGGCTATTACG
GCTACGGCCCCGGCTACGACTACAGTCAGGGTAGTACAACTACGGCAAGAGCCAGCGACGTGGTGGCCATCAGA
ATAACTACAAGCCATACTTAAGGCGGCCAAGGGAGCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGT
GAACACAATTATGTACCAAATTTAACTTGGCAAACCTTTCTATTGCCTGTCCCATGTGCATCTTATTTAAAATTTT
CCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGGTGTCTGAGAGGC
CATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCAGAAGCAGGTGAGAGGCTCTGCTTCCTGCTGCCG
CTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAGTGTCACCTTTTTTT
CACCTTTTAATTTTATATTATTTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTGTACTTTTTGGTA
CCCCTTTTGGGAATCTAATGTATTGTAAGGTATTTACACGTGTCCTGATTTTGCCACAACCTGGATATTGAAGC
TATCCAAGCTTTTGAAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGGAAAAAAAAAAAAAAAAA

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FIGURE 260

MSEAGEEQPMETTGATENGHEAVPEASRGRGWTGAAAGLEARPPRPRAGIRTAPRDQINASKNEEDAGKMFVGGL
SWDTSKKDLKDYFTKFGEVVDCTIKMDPNTGRSRGFGFILFKDAASVEKVLDQKEHRLDGRVIDPKKAMAMKKDP
VKKIFVGGLNPESPTEEKIREYFGEFGEIEAIELPMDPKLNKRRGFVFITFKEEEPVKKVLEKKFHTVSGSKCEI
KVAQPKEVYQQQQYGS GGRGNRRGNRSGGGGGGGGQSQSWNQGYGNYWNQGYGYQQGYGPGYGGYDYSPLYGY
GYGPGYDYSQGSTNYGKSQRRGGHQNNYPY

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FIGURE 261

GCCGGGGAAGTCATGCTCGCTTCACGGAGGCAATAGCTAGCCGGTGTCTGTGGGAGGTTATGTTTATTTGAGACT
TCTCCATCGGGATCGCCTGGTGTACCAAGTGTCCACTGGTACTGAGGTTTGCTGCCTGCCTTCTTGCC**ATGT**CT
AACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCGACCAACAGGCCGCACCAAAGCACCCCTCAAAGAAGGAA
AAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTAGCAAGGTTCAAAGGCGATGGCGTAAATATAAGGCC
AAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATAAAATGAGCCAAGACTCTATGATGAACTAAAG
GGAATGGCGGCACGTGGTTCGGTCTCAGGGACAACACAAACAAAGGATCTGGGTCAACATTTCCCTTTCTGGGATA
AAAATAATTGATGAGAAACTGGGGTAATAGAGCATGAACATCCAGTAAATAAGATTTCTTTTATTGCCCCGTGAT
GTGACAGACAACCGGGCATTGGTTACGTGTGTGGAGGAGAAGGCCAGCATCAGTTTTTTTACCATAAAAACCGGG
CAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTTCAAGTTATCTATAATGTAAAGAAAAAGGAAGAA
GAAAAGAAAAAGATAGAGGAAGCCAGCAAAGCAGTTGAGAATGGGAGTGAGGCCCTAAGGATTCTAGATGACCAA
ACTAACAACTGAAATCGGGTGTTGACCAGATGGATTTGTTTGGGGACATGTCTACACCTCCTGACCTAAATAGT
CCAACAGAAAAGCAAAGATATCCTGTTAGTGGATCTAAACTCTGAAATCGACACCAATCAGAATTCTTTAAGAGAA
AATCCATTCTTAACAAACGGCATCACCTCCTGTTCTCTTCCCTCGACCAACGCCTCAGGCATCCTTCTTGCCTGAA
AATGCCITTTTCTGCCAATCTCAACTTCTTTCCACCCCTAATCCTGATCCTTTCCGTGACGATCCTTTACACAG
CCAGACCAATCGACACCTTCTTCGTTTGATTCTCTCAAATCTCCAGATCAGAAGAAAGAGAATTTCGAGTAGCTCG
TCTACTCCGCTGAGTAATGGGCCCCCTGAATGGTGATGTTGACTACTTTGGTCAGCAATTTGACCAGATCTCTAAC
CGGACTGGCAAACAGGAAGCTCAGGCAGGCCCATGGCCCTTTTCAAGTTCGCAAACCCAGCCAGCAGTGAGAACT
CAAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCAAATCCTCCCCGAACCCTTTTGTGGGAAGCCCT
CCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTTGGAAGCTCTGTCCAGTCTCACCACATGACTCC
ATAGCCATTATCCCACCTCCACAAAGTACCAACCAGGAAGAGGCAGAAGGACTGCTAAGTCTTCAGCCAATGAC
TTGCTTGACATCAGACATCTTTGCTCCTCCCGTCTCAGAACCCTCAGGCCAGGCGTCACCCACAGGACAACCTACA
GCCCTGCAGCCCAACCCTCTGGATCTCTTCAAACAAGTGCTCCTGCCCCAGTGGGGCCCCCTGGTGGGTCTAGGT
GGTGTAAGTGTACACTCCCTCAGGCAGGACCATGGAACACAGCATCTTTGGTCTTCAATCAGTCCCCCTTCAATG
GCTCCGGGAGCCATGATGGGTGGTCAACCTTCAGGTTTTAGTCAGCCCGTCATTTTTGGTACAAGTCCAGCTGTT
TCAGGTTGGAACCAGCCTTCACCTTTGCAGCCTCAACTCCCCCTCCAGTGCCTGTTGTCTGGGGCCCTTCTGCA
TCTGTGGCACCCTAATGCTTGGTCAACAACAAGCCCTTTGGGGAATCCTTTTCAGAGCAATATTTTTCCAGCTCCT
GCTGTGTCCACTCAGCCCCATCCATGCACTCCTCTCTCCTGGTCACTCCTCCTCAGCCACCTCCCAGAGCTGGC
CCTCCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGACCCACTTGGGGATAAAGAGATCAAGGATGTGAAA
GAAATGTTTAAGGATTTCCAACTGCGGCAGCCACCTGCTGTGCCCCGCGGAAGGGAGAGCAGACTTCTTCTGGG
ACTTTGAGTGCCTTTGCCAGTTATTTCAACAGCAAGGTTGGCATTCTCAGGAGAATGCAGACCATGATGACTTT
GATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAAGCCAGCTCCAGACAAGTTTCCCTGCCAGTTACC
AAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGATTCTTTTGGTTTCATCACAAGCCTCTGTGGCTTCT
TCTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTTGGAAATCCTTTTGCC**TAA**ATTCTGAACTTGGTCTGC
AGACCATCCAGAGGAATAAAAAGGTTGGCCTTAGTAGTCAAAAACAAAGCTGATAGCCAGACACGTTCTGATTTT
TGCCCTTGTTCCAGCTTTGACGTATTATCTGTTGCCTTATTTCTCATTTGCCTCTTCTACTTGTAAAAATGCTTTTC
ACTTTCTGTCTAGGTTAAAGCTAAACTGAATCTATGGCTTTAAATAAATTAAGATCCTAAACTCTCTAGCTTAAG
TGTAATGAAGTACAGTAGTTTCCCTACTGAACCTACCTCCTTGTGTCCCTGGAACCTTCTAGAACACCTGCCTT
CTACCCCTCTGGTTGGGAGATGCAGCCACCACATCCCTTCATATCATACTGTTTTGAATAAATTTTCAAATCCTTA
TTGTTTCAGAGTTGTTTGGGGTTCTGTTTCAGAGCATAAAACCTAAAGGTTATAGTAGAACAAGGCACCTTCTTA
AAAGAAATCTTGCTTCAGACCATCAGTTACAGAGAATTTCTTAAAGTAAATTAAGCAACTACAACCTTCTCCTT
AGACACTTTGGAATCTAACCCTTAAGGACCTTTTAAAGAGATAGCTTCTCTTCTTCTGAAGATCAATTTCTC
CCAAGGCCAAGATTGTCCTTTTCTCCATTCTTGCTAGCTATTGCAAATGAGGGAAGAACATTATTCACTCTC
CTCCCTTTTTTTTCTGATTCTTTTTTTCAGTCAGTTTTGCTCCTGGGTTCAAGTAGTATTACCACCTTTCACAA
GCAACAGACTCTCACAGGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 262

MSNEVETSATNGQPDQQAAPKAPSKKEKKKGPEKTDEYLLARFKGDGVKYKAKLIGIDDPDARGDKMSQDSMMK
LKGMAARGRSQGQHKQRIWVNISLSGIKIIDEKTGVIEHEHPVNKISFIARDVTDNRAFGYVCGGEGQHQFFTIK
TGQQAEPPLVVDLKDLEFQVIYNVKKKEEEKKKIEEASKAVENGSEALRILDDQTNKLKSGVDQMDLFGDMSTPPDL
NSPTESKDILLVDLNSEIDTNQNSLRENPFLLTNGITSCSLPRPTQASFLPENAFSANLNFFPTPNPDFFRDDPF
TQPDQSTPSSFDLSKSPDQKKENSSSSSTPLSNGPLNGDVDFYFGQQFDQISNRTGKQEAQAGPWPFSSSQTPAV
RTQNGVSEREQNGFSVKSSPNPFVGSPPKGLSIQNGVKQDLESSVQSSPHDSIAIIPPPQSTKPGRRRTAKSSA
NDLLASDIFAPPVSEPSGQASPTGQPTALQPNPLDLFKTSAPAPVGPLVGLGGVTVTLPQAGPWNTASLVFNQSP
SMAFGAMMGQPSGFSQPVIFGTSPAVSGWNQPSFPAASTPPPVVWGPSASVAPNAWSTTSPLGNPFQSNIFP
APAVSTQPPSMHSSLLVTTPPPPPRAGPPKDISSDAFTALDPLGDKEIKDVKEMFKDFQLRQPPAVPARKGEQTS
SGTLSAFASYFNSKVGIPQENADHDDFDANQLLNKINEPPKPAPRQVSLPVTKSTDNAFENPFFKDSFGSSQASV
ASSQPVSSSEMYRDPFGNPFA

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FIGURE 263

AGATATCTCCGGCGCCGCCGCCCCGCCATTTTGGACTCCAGTGTCTCGTTTGCAGTCGGCGCTTTAGGGGAAGTGTCTTC
CTCCGCAGGCGCGAGGCTGGGTACAGGGTCTATTGTCTGTGGTTGACTCCGTACTTTGGTCTGAGGCCTTCGGGA
GCTTTCCCGAGGCAGTTAGCAGAAGCCGCAGCGGCCGCCCCGCCCCGTCTCCTCTGTCCCTGGGCCCCGGGAGGGA
CCAACCTTGGCGTCACGCCCCCTCAGCGGTGCGCACTCTCTCTCTGTGTTGGGTCCGCATCGTATTCGCGGAATC
AGACGGTGCCCCATAGATGGCCAGCTTTCCCCCGAGGGTCAACGAGAAAGAGATCGTGAGATTACGTACTATAGG
TGAACCTTTAGCTCCTGCAGCTCCTTTTGACAAGAAATGTGGTCGTGAAAATTGGACTGTTGCTTTTGCTCCAGA
TGGTTTCATACTTTGCTTGGTCACAAGGACATCGCACAGTAAAGCTTGTTCGTTGGTCCAGTGCCTTCAGAACTT
TCTCTTGCATGGCACCAAGAATGTTACCAATTCAAGCAGTTTAAAGATTGCCAAGACAAAATAGTGATGGTGGTCA
GAAAAATAAGCCTCGTGAACATATTATAGACTGTGGAGATATAGTCTGGAGTCTTGCTTTTGGGTTCATCAGTTCC
AGAAAAACAGAGTCGCTGTGTAAATATAGAATGGCATCGCTTCAGATTTGGACAAGATCAGCTACTTCTTGCTAC
AGGGTTGAACAATGGGCGTATCAAAATATGGGATGTATATACAGGAAAACCTCCTCCTTAAGTTGGTAGATCATAC
TGAAGTGGTTCAGAGATTTAACTTTTGCTCCAGATGGAAGCTTGATCCTGGTGTGAGCTTCAAGAGACAAAACCTCT
CAGAGTATGGGACCTGAAAGATGATGGAACATGATGAAAGTATTGAGGGGGCATCAGAATTGGGTGTACAGCTG
TGCATTCTCTCCTGACTCTTCTATGCTGTGTTTCAGTCGGAGCCAGTAAAGCAGTTTTCTTTTGGAAATATGGATAA
ATACACCATGATACGGAAACTAGAAGGACATCACCATGATGTGGTAGCTTGTGACTTTTCTCCTGATGGAGCATT
ACTGGCTACTGCATCTTATGATACTCGAGTATATATCTGGGATCCACATAATGGAGACATTCTGATGGAATTTGG
GCACCTGTTTCCCCCACCTACTCCAATATTTGCTGGAGGAGCAAATGACCGGTGGGTACGATCTGTATCTTTTAG
CCATGATGGACTGCATGTTGCAAGCCTTGCTGATGATAAAATGGTGAGGTTCTGGAGAATTGATGAGGATTATCC
AGTGCAAGTTGCACCTTTGAGCAATGGTCTTTGCTGTGCCTTCTCTACTGATGGCAGTGTTTTAGCTGCTGGGAC
ACATGACGGAAGTGTGTATTTTGGGCCACTCCACGGCAGTCCCTAGCCTGCAACATTTATGTCGCATGTCAAT
CCGAAGAGTGATGCCACCCCAAGAAGTTTCAGGAGCTGCCGATTCTTCCAAGCTTTTGGAGTTTCTCTCGTATCG
TATTTAGAAAGATTCTGCCTTCCCTAGTAGTAGGGACTGACAGAATACACTTAACACAAACCTCAAGCTTTACTGA
CTTCAATTATCTGTTTTTAAAGACGTAGAAGATTTATTTAATTTGATATGTTCTTGTACTGCATTTTGATCAGTT
GAGCTTTTAAATATTTATTTATAGACAATAGAAGTATTTCTGAACATATCAAATATAAATTTTTTAAAGATCTA
ACTGTGAAAACATACATACCTGTACATATTTAGATATAAGCTGCTATATGTTGAATGGACCCTTTTGCTTTTCTG
ATTTTTAGTTCGTGACATGTATATATTGCTTCAGTAGAGCCACAATATGTATCTTTGCTGTAAAGTGCAAGGAAAT
TTTAAATTCTGGGACACTGAGTTAGATGGTAAATACTGACTTACGAAAGTTGAATTGGGTGAGGCGGGCAAATCA
CCTGAGGTCAGCAGTTTGAGACTAGCCTGGCAAACATGATGAAACCTGTCTCTACTAAAAATACAAAAA
AAAATTAGCCAGGCGTGGTGGTGCACACCTGTAGTCCTAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCAGGAGGTGGAGGTTGCAGTAAGCCAAGATCACACCACTGCACTCCAACCTGGACAACAGAGCGAGACTCCAT
CTCAAAAAAAAAAAAAAAAAATTGTGTTGCCTCATACGAAATGTATTTGGTTTTGTTGGAGAGTGTGAGACTGATCTG
GAAGTGAAACACAGTTTATGTACAGGGAAGGATTTTATTATCCTTAGGAATGTCATCCAAGACGTAGAGCTTG
AATGTGACGTTATTTAAAAACAACAACAAGAAGGCAGAGCCAGGATATAACTAGAAAAGGATGTCTTTTTTTT
TTTTTTTACTCCCCCTCTAAACACTGCTGCTGCCTTAATTTTAGAAAAGCAGCTTACTAGTTTACCCTTGTGGTAT
AAAGTATTATAAATTGTTGTGAATTTGAAGAATCCGTCTACTGTATTATTGCTAAATATTTTGTTTATACTAAGG
GACAATTATTTTAAAGACCATGGATTTAAAAAAAAAAAAAAAAACTCTGTTTCTGCAGGGGATGATATTGGTGAGT
TGCCAAAGAAGCAATACAGCATATCTGCTTTTGCTTCTGTGTTTATCTTACCTGCAGATATTAAGAATGTATG
CATTATGTAAATGCTCAATTATATATTTTTTGTGAGTTTTTTAATTAAAGACTTGTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 264

MASFPPRVNEKEIVRLRTIGELLAPAAPFDKKCGRENWTVAFAPDGSYFAWSQGHRTVKLVPWSQCLQNFLHGT
KNVTNSSLRLPRQNSDGGQKNKPREHIIDCGDIVWSLAFGSSVPEKQSRCVNIEWHRFRFGDQLLLATGLNNG
RIKIWDVYTGKLLLNLDHTEVVRDLTFAPDGSLLVSASRDKTLRVWDLKDDGNMMKVLRGHQNWVYSCAFSPD
SSMLCSVGASKAVFLWNMDKYTMIRKLEGGHHHDVVACDFSPDGALLATASYDTRVYIWDPHNGDILMEFGHLFPP
PTPIFAGGANDRWVRSVSFSDGLHVASLADDKMVRFWRIDEDYPVQVAPLSNGLCCAFSTDGSLAAGTHDGSV
YFWATPRQVPSLQHLCRMSIRRVMTQEVQELPIPSKLEFLSYRI

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FIGURE 265

GCGCGAGGGAGGCGAGCCGGAGCCCGAGCACTAGCAGCAGCCGGAGTCGGCGGAAAGCACCCGGGCGCAGCCGGA
GCCGGTGCCGCAGCTGCGATGGCCGTGGCCGTGGGGAGACCGTCTAATGAAGAGCTTCGAAACTTGTCTTTGTCT
GGCCATGTGGGATTTGACAGCCTCCCTGACCAGCTGGTCAACAAGTCTACTTCTCAAGGATTCTGTTTCAACATC
CTTTGTGTTGGTGAGACAGGCATTGGCAAATCCACGTTAATGGACACTTTGTTCAACACCAAATTTGAAAGTGAC
CCAGCTACTCACAATGAACCAGGTGTTTCGGTTAAAAGCCAGAAGTTATGAGCTTCAGGAAAGCAATGTACGGCTG
AAGTTAACCATTGTTGACACCGTGGGATTTGGAGACCAGATAAATAAAGATGACAGCTATAAGCCGATAGTAGAA
TATATTGATGCCCAGTTCGAGGCCTACCTGCAAGAGGAATTGAAGATTAAACGTTCTCTCTTCAACTACCATGAC
ACGAGGATCCATGCCTGCCTCTACTTTATTGCCCTACTGGACATTCCTAAAGTCCCTGGATCTGGTCACCATG
AAAAAGCTGGACAGTAAGGTGAACATCATTCCAATAATTGCAAAAGCTGACACCATTGCCAAGAATGAACTGCAC
AAATTCAAGAGTAAGATCATGAGTGAAGTGGTTCAGCAATGGGGTCCAGATATATCAGTTTCCCACTGATGAAGAA
ACGGTGGCAGAGATTAAACGCAACAATGAGTGTCCATCTCCCATTTGCAGTGGTTGGCAGCACCGAAGAGGTGAAG
ATTGGCAACAAGATGGCAAAGGCCAGGCAGTACCCCTGGGGTGTGGTGCAGGTTGAGAATGAAAATCATTGCGAT
TTTGTGAAACTTCGAGAGATGCTGATCCGCGTGAACATGGAGGACTTGCAGAGCAGACTCACACCCGCCACTAT
GAATTGTACCGACGCTGTAAGCTTGAAGAGATGGGGTTCAAGGACACTGACCCTGACAGCAAACCCCTTCAGTCTT
CAGGAGACATATGAAGCAAAAAGGAATGAATTCTGGGAGAACTGCAGAAGAAAGAAGAAGAAATGAGACAAATG
TTTGTATGAGAGTGAAGGAGAAAGAAGCTGAACCTAAGGAGGCAGAGAAAGAGCTTCACGAGAAGTTTGACCTT
CTAAAGCGGACACACCAAGAAGAAAGAAGAAAGTGAAGACAAGAAGAAGGAGCTTGAGGAGGAGGTGAACAAC
TTCCAGAAGAAGAAAGCAGCGGCTCAGTTACTACAGTCCAGGCCAGCAATCTGGGGCCAGCAAACCAAGAAA
GACAAGGATAAGAAAAATGCAAGCTTCACATTAAAGCCTGGCAAGCCAAGGATGTTCCCGCATTACCTGCTTTTG
CAGTAATATCGTATCTCTGCCATGTGTGTTCTTTAGTTTTATTTTATTTTATTTTATTTTATTTTACCCTTCCTCAA
ACACCAGTAATACTATTAACTCGTTTTGCTGAATGTTGTTGGGTGGTAGAAAATGATAGAACAAGGGAATAACC
GCGAATGCTCTGTGCAGCTGGACTCTGTTTCCGGAAAGTAAATGATTTGCTTTTTATGCCTGTTCTGAATGGCAG
CACGAAGCAGGCCTGTTACTTGTATGTCGCTTTGGACAGAGGAAAGTGGGGTAAAATGCTACCTGTACGTCTGAC
ATGAAAACCTCTCACCGCCTCAGCAGCTGAACTAAAAACCTGAATAGCCATGACAAGAGTTTGCATTTTCTTGAT
GATTCATCTCCATGAGTGCACAATCCCTGAACTCACTGTCTTTCTCCACACTTGTCTTAAGCCAAGGTAGATTT
GTACGTAGACAGACTGGTGAGCAAGCATTATATTTTATTTTACCCTTGCATGACATTTTCATTTTAATCAATAA
CATTATTTGGCCTGAGCTTGTGGGTCGTTCAGACTGTCTCCTCTCATGGTTTGAACTGCATCTGAATGCCTGC
CTTCAATCCTGGCCAAGTTGGAGTAGACTGGTATGAGAAAATATGATTAGTTCACATTTACTGGTGCATCCTTG
ATCCTCTCACAGATAGAGGTCTTAAAGGTTGGATCATGTAACATTGCTTAGTAGAAGAATCTTCTTCTAAGGATG
ATGGGCTTTCTACAGCCTGCTTACCACTAACAGTAAGGAATCTTTTATAAACACACCTCAGTTTGTTCCCAGTGG
GCTTAGAGGGAGGACCTGATGACTGATTCCAGGATACTTGTACTTCTAATAACATTTTTTTCATGAATCATGAGAAA
ATTTCCACAGATACTTCCCTTAGAAAATTTGCTATAAACTCTGTATCATTTGGTAGCACAAATTTGAGCGAGGCCC
TGTCAATTTTAAAGTGGAATAGGAAGGACCACAACATGACCCGTAAGTCAAGAAGGTAGACATTTTCATATCCAG
CTTCCCTTGCTTAGTCTCCTTTTCAATTTTGGCAATAAAAAGAAAAGAAATAGAACAGCTGAAGTCTCAAATCAT
TGTCTGGAATTTTCTCACCTTGGCTAGCTCCACCTGCTCTTTGTCTAAGGCCCTTGCCTCATCAGGGATTAGAA
CTGGCCCATATGCCAGAACCTGTACTAAATGCCTAATTTGTATGGAAGAGTGCATATTTAATCTCTTTTCTATAC
TGCTCCTTTCTGATGCTTATCCTTTTCTATCTGTGTGATTGTTTTTCCCCTCTACTAACAAGATCCTCCAGCTTT
CTCTCTACATGTAGAAAGGATAACATTTCTCATGAACCCACTGCCCTCTGCATTTTCTCACTGGTTAG

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FIGURE 266

MAVAVGRPSNEELRNLSLSGHVGFDSLDPQLVNKSTSQGF CFNILCVGETGIGKSTLMDTLFNTKFESDPATHNE
PGVRLKARSYELQESNVRLKLTIVDTVGF GDQINKDDSYKPIVEYIDAQFEAYLQEELKIKRSLFNHYHDTRIHAC
LYFIAPTGHSLKSLDLVTMKKLDSKVNIIP IIAKADTI AKNELHKFKSKIMSELVSNQVQIYQFPTDEETVAEIN
ATMSVHLFPFAVVGSTEEVKIGNKMAKARQYPWGVVQVENENHCDFVKLREMLIRVNMEDLREQTHTRHYELYRRC
KLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVMRVKEKEAELKEAEKELHEKFDLLKRTHQ
EEKKKVEDKKKELEEEVNNFQKKKAAAQLLQSQAAQSGAQQTKKDKDKKNASFT

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FIGURE 267

ACCCGCGCTCGTACGTGCGCCTCCGCCGGCAGCTCCTGACTCATCGGGGGCTCCGGGTACATGCGCCCGCGCGG
CCCTATAGGCGCCTCCTCCGCCCGCCGGGAGCCGAGCCGCCGCCACTGCCACTCCCGCTCTCTCAGC
GCCGCCGTGCCACCGCCACCGCCACCGCCACTACCACCGTCTGAGTCTGCAGTCCCGAGATCCAGCCATC**ATG**

TCCATAGAGAAGATCTGGGCCCCGGGAGATCCTGGACTCCCGCGGGAACCCACAGTGGAGGTGGATCTCTATACT
GCCAAAGGTCTTTTCCGGGCTGCAGTGCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCTGGAGCTGAGGGAT
GGAGACAAACAGCGTTACTTAGGCAAAGGTGTCTGAAGGCAGTGGACCACATCAACTCCACCATCGCGCCAGCC
CTCATCAGCTCAGGTCTCTCTGTGGTGGAGCAAGAGAACTGGACAACCTGATGCTGGAGTTGGATGGGACTGAG
AACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCTCTGGCCGTGTGTAAGGCAGGGGCAGCTGAGCGG
GAACTGCCCCCTGTATCGCCACATTGCTCAGCTGGCCGGGAACTCAGACCTCATCCTGCCTGTGCCGGCCTTCAAC
GTGATCAATGGTGGCTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCCAGTGGGAGCTGAG
AGCTTTCGGGATGCCATGCGACTAGGTGCAGAGGTCTACCATACTCAAGGGAGTCATCAAGGACAAATACGGC
AAGGATGCCACCAATGTGGGGGATGAAGGTGGCTTTGCCCCCAATATCCTGGAGAACAGTGAAGCCTTGGAGCTG
GTGAAGGAAGCCATCGACAAGGCTGGCTACACGGAAAAGATCGTTATTGGCATGGATGTTGCTGCCTCAGAGTTT
TATCGTGATGGCAAATATGACTTGGACTTCAAGTCTCCCACTGATCCTTCCCGATACATCACTGGGGGACCAGCTG
GGGGCACTCTACCAGGACTTTGTGAGGGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGG
GCTGCCTGGTCCAAGTTCACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAGTGACCAACCCAAAA
CGTATTGAGCGGGCAGTGAAGAAAAGGCCTGCAACTGTCTGCTGCTCAAGGTCAACCAGATCGGCTCGGTCACT
GAAGCCATCCAAGCGTGCAAGCTGGCCCAGGAGAAATGGCTGGGGGGTTCATGGTGAGTCATCGCTCAGGAGAGACT
GAGGACACATTTCATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGACTGGTGCCCCGTGCCGTTCT
GAACGTCTGGCTAAATACAACCAGCTCATGAGAATTGAGGAAGAGCTGGGGGATGAAGCTCGCTTTGCCGGACAT
AACTTCCGTAATCCCAGTGTGCTG**TGAT**TCCTCTGCTTGCCTGGAGACGTGGAACCTCTGTCTCATCCTCCTGGA
ACCTTGCTGTCTGATCTGTGATAGTTCACCCCTGAGATCCCTGAGCCCCAGGGTGCCCAAGAACTTCCCTGAT
TGACCTGCTCCGCTGCTCCTTGGCTTACCTGACCTCTTGCTGTCTCTGCTCGCCCTCCTTTCTGTGCCCTACTCA
TTGGGGTTCCGCACTTTCCACTTCTTCCTTTCTCTTCTCTTCCCTCAGAACTAGAAATGTGAATGAGGATT
ATTATAAAAGGGGGTCCGTGGAAGAATGATCAGCATCTGTGATGGGAGCGTCAGGGTTGGTGTGCTGAGGTGTTA
GAGAGGGACCATGTGTCACTTGTGCTTTGCTCTTGTCCCACGTGTCTTCCACTTTGCATATGAGCCGTGAACGTG
GCATAGTGCTGGGATGGAGGGGAGTGTGGGCATGTGATCACGCCTGGCTAATAAGGCTTTAGTGATTTTATTTA
TTTATTTATTTTATTTGTTTTTCATTTCATCCCATTAATCATTTCCCCATAACTCAATGGCCTAAACTGGCCTGA
CTTGGGGGAACGATGTGTCTGTATTTTCATGTGGCTGTAGATCCCAAGATGACTGGGGTGGGAGGTCTTGCTAGAA
TGGGAAGGGTCATAGAAAGGGCCTTGACATCAGTTCCTTTGTGTGTACTCACTGAAGCCTGCGTTGGTCCAGAGC
GGAGGCTGTGTGCCTGGGGGAGTTTTCTCTATACATCTCTCCCCAACCTAGGTTCCCTGTTCTTCTCCAGCT
GCACCAGAGCAACCTCTCACTCCCCATGCCACGTTCCACAGTTGCCACCACCTCTGTGGCATTGAAATGAGCACC
TCCATTAAAGTCTGAATCAGTGC

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FIGURE 268

MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYELELRDGDQRYLGKGVLKAVDHINSTIAP
ALISSGLSVVEQEKLNDNLMELDGTENKSKFGANAILGVSLAVCKAGAAERELPLYRHIAQLAGNSDLILPVPAP
NVIINGGSHAGNKLAMQEFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALE
LVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDD
WAAWSKFTANVGIQIVGDDLTVTNPKRIERAVEREEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGDEARFAGHNFRNPSVL

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FIGURE 269

CAACACAGGGGCAGTCTCCAGGACCTCCACACCATTAAACAAGATGAGCCTTGTGCTCCCTTGGGCTCTAGAGAGG
AAGCCCCCTCTGAGCCCTCAGCCCCCTCTTTCCCTCCCTCTCCTAAAGTAATTTGATCCTCAGGAATTTGTTCTGCCC
TCATCTGGCCCTGGCCAGCTCTGCATTTGACAAATGCCAGGAAGAGGAAACTGTTGAGAAAACGGAACACTACTGGG
GAAAGGGAGGGCTCACTGAGAACCATCCCGGTAACCCGACCGCCGCTGGTCACCATGAACCACATTGTGCAAACC
TTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAGATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGG
GGGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCACATCCGCAGCGAGACCTCCGTGCCTGACCATGTC
GTCTGGTCCCTGTTCAACACCCTCTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTGCGCTACTCCGTGAAG
TCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCCTATGCCTCCACCGCCAAGTGCCTGAACATC
TGGGCCCTGATTTTGGGCATCTTCATGACCATTCTGCTCGTCATCATCCCAGTGTTGGTTCGTCCAGGCCCAGCGA
TAGATCAGGAGGCATCATTGAGGCCAGGAGCTCTGCCCGTGACCTGTATCCCACGTACTCTATCTTCCATTCCCTC
GCCCTGCCCCCAGAGGCCAGGAGCTCTGCCCTTGACCTGTATTCCACTTACTCCACCTTCCATTCCCTCGCCCTGT
CCCCACAGCCGAGTCCCTGCATCAGCCCTTTATCCTCACACGCCTTTTCTACAATGGCATTCAATAAAGTGTATATG
TTTCT

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FIGURE 270

MNHIVQTFSPVNSGQPPNYEMLKEEQEVAMLGGPHPNPAPTSTVIHIRSETSVDPDHVVWSLFTLTFMNTCCCLGFI
AFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILLVIIPVLVVQAQR

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FIGURE 271

AGCACTCTCCAGCCTCTCACCGCAAAATTACACACCCCAGTACACCAGCAGAGGAAACTTATAACCTCGGGAGGC
GGGTCCCTTCCCTCAGTGCGGTACATACTTCCAGAAGAGCGGACCAGGGCTGCTGCCAGCACCTGCCACTCAGA
GCGCCTCTGTCGCTGGGACCCTTCAGAACTCTCTTTGCTCACAAGTTACCAAAAAAAAAAGAGCCAAC**ATGT**TGG
TATTGCTGGCTGGTATCTTTGTGGTCCACATCGCTACTGTTATTATGCTATTTGTTAGCACCATTTGCCAATGTCT
GGTTGGTTTCCAATACGGTAGATGCATCAGTAGGTCTTTGGAAAACTGTACCAACATTAGCTGCAGTGACAGCC
TGTCATATGCCAGTGAAGATGCCCTCAAGACAGTGCAGGCCCTTCATGATTCTCTCTATCATCTTCTGTGTCATTG
CCCTCCTGGTCTTCGTGTTCCAGCTCTTCACCATGGAGAAGGGAAACCGGTTCTTCTCTCAGGGGCCACCACAC
TGGTGTGCTGGCTGTGCATTCTTGTGGGGGTGTCCATCTACACTAGTCATTATGCGAATCGTGATGGAACGCAGT
ATCACACGGCTATTCTACATCCTGGGCTGGATCTGCTTCTGCTTCAGCTTCATCATCGGCGTTCTCTATCTGG
TCCTGAGAAAAGAA**TA**AGGCCGGACGAGTTTCATGGGGATCTGGGGGGTGGGGAGGAGGAAGCCGTTGAATCTGGG
AGGGAAGTGGAGGTTGCTGTACAGGAAAAACCGAGATAGGGGAGGGGGGAGGGGGAAGCAAAGGGGGGAGGTCAA
ATCCCAAACCATTA**CT**GAGGGGATTCTCTACTGCCAAGCCCCTGCCCTGGGGAGAAAGTAGTTGGCTAGTACTTT
GATGCTCCCTTGATGGGGTCCAGAGAGCCTCCCTGCAGCCACCAGACTTGGCCTCCAGCTGTTCTTAGTGACACA
CACTGTCTGGGGCCCCATCAGCTGCCACAACACCAGCCCCACTTCTGGGTCATGCACTGAGGTCCACAGACCTAC
TGCAGTGAGTTAA**AT**AGCGGTACAAGTTCTGGCAAGAGCAGATACTGTCTTTGTGCTGAATACGCTAAGCCTGG
AAGCCATCCTGCCCTTCTGACCCAAAGCAAAACATCACATTCCAGTCTGAAGTGCCTACTGGGGGGCTTTGGCCT
GTGAGCCATTGTCCCTCTTTGGAACAGATAATTTAGCTCTGTGGAATTCAGTGACAAAATGGGAGGAGGAAAGAGA
GTTTGTAAAGT**CA**TGCTGGTGGGTTAGCTAAACCAAGAGGAGACCTTTTACAATGGA**AA**ACCTGGGGGATGGT
CAGAGCCCAGTCGAGACCTCACACACGGCTGTCCCTCATGGAGACCTCATGCCATGGTCTTTGCTAGGCCCTCTTG
CTGAAAGCCAAGGCAGCTCTTCTGGAGTTTCTCTAAAGTCACTAGTGAACAATTCGGTGGTAA**AG**TACCACACA
AACTATGGGATCCAAGGGGCAGTCTTGCAACAGTGCCATGTTAGGGTTATGTTTTTAGGATTCCCTCAATGCAG
TCAGTGTTCTTTTAAAGTATACAACAGGAGAGAGATGGACATGGCTCATTGTAGCACAATCCTATTACTCTTCCT
CTAACATTTT**G**AGGAAGTTTTGTCTAATTATCAATATTGAGGATCAGGGCTCCTAGGCTCAGTGGTAGCTCTGG
CTTAGACACCACCTGGAGTGATCACCTCTTGGGGACCCTGCCTATCCCACTT**CA**CAGGTGAGGCATGGCAATTCT
GGAAGCTGATTAA**AA**ACACACATAAAACCA**AA**ACCA**AA**CAACAGGCCCTTGGGTGAAAGGTGCTATATAATTGTGAA
GTATTAAGCCTACCGTATTT**C**AGCCATGATAAGAACAGAGTGCTGCATTCC**C**AGGAA**AA**TACGAA**AA**TCCCATG
AGATA**AA**TAA**AA**ATATAGGTGATGGGCAGATCTTTCTTTAA**AA**TAA**AA**AGCA**AA**AACTCTTGTTGGTACCTAGT
CAGATGGTAGACGAGCTGTCTGCTGCCGCAGGAGCACCTCTATACAGGACTTAGAAGTAGTATGTTATTCCTGGT
TAAGCAGGCATTGCTTTGCCCTGGAGCAGCTATTTTAAGCCATCTCAGATTCTGTCTAAAGGGGTTTTTTGGGAA
GACGTTTTCTTTATCGCCCTGAGAAGATCTACCC**C**AGGGAGAACTGAGACATCTTGCC**T**ACTTTTTCTTTATTAG
CTTTCTCCTCATCCATTTCTTTTATACCTTTCTTTTGGGGAGTTGTTATGCCATGATTTTTGGTATTTATGTA
AAAGGATTATTACTAATTCTATTTCTCTATGTTATTCTAGTTAAGGAAATGTTGAGGGCAAGCCACCA**AA**ATTAC
CTAGGCTGAGGTTAGAGAGATTGGCCAGCA**AA**AACTGTGGGAAGATGA**AA**CTTTGT**C**ATTATGATTT**C**ATTAT**C**AC
ATGATTATAGAAGGCTGTCTTAGTGCA**AA**AAACATACTTACATTT**C**AGACATATCC**AA**AGGGA**AA**ACT**C**ACATTT
TGTTAAGAA**AG**TTGA**AA**CTATGACTGGAGTAAACCATGTATTCCCTTATCTTTTACTTTTTTTCTGTGACATTTATG
TCTCATGTAATTTGCATTACTCTGGTGGATTGTTCTAGTACTGTATTGGGCTTCTTCGTTAATAGATTATTT**C**AT
ATACTATAATTGTAAATATTTTGATACAAATGTTTATAACTCTAGGGATATA**AA**AAACAGATTCTGATTCCCTTCA
AAAAAAAA**AA**

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FIGURE 272

MLVLLAGIFVVHIATVIMLFVSTIANVWLVSNTVDASVGLWKNCTNISCSDSLSYASEDALKTVQAFMILSIIFC
VIALLVFVFQLEFTMEKGNRFFLSGATTLCWLCILVGVSITYTSHYANRDGTQYHHGYSYILGWICFCFSFIIGVL
YLVLRKK

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FIGURE 273

AGCCAAAAGAGGAAGGGACCGCCTCCACGTCCACAGGGACCTGACTTCCACCTCTCTGCCAGATTTGCTTAT
GTCACTGTGCCCCCGGGACGGGGAGGTGGGGAGCTGAGGGCAAGTCGCGCCCGCCCTGAAATCCCAGCCGCCTA
GCGATTGGCTGCAAGGGTCTCGGCTTGGCCGCGGATTAATCACACCCGAGGGCTTGAAAGGTGGCTGGGAGCGCC
GGACACCTCAGACGGACGGTGGCCAGGGATCAGGCAGCGGCTCAGGCGACCCTGAGTGTGCCCCACCCCGCCAT
GGCCCGCTGCTGCAGGCGTCTGCTGCTTTCCCTGCTCCTGGCCGGCTTCGTCTCGCAGAGCCGGGGACAAGA
GAAGTCGAAGATGGACTGCCATGGTGGCATAAGTGGCACCATTACGAGTACGGAGCCCTCACCATTGATGGGGA
GGAGTACATCCCCTTCAAGCAGTATGCTGGCAAATACGTCTCTTTGTCAACGTGGCCAGCTACTGAGGCCTGAC
GGGCCAGTACATTGAACTGAATGCACTACAGGAAGAGCTTGACCATTTCGGTCTGGTCATTCTGGGCTTTCCCTG
CAACCAATTTGGAAAACAGGAACCAGGAGAGAACTCAGAGATCCTTCCTACCCCAAGTATGTCGACCAGGTGG
AGGCTTTGTCCCTAATTTCCAGCTCTTTGAGAAAGGGATGTCAATGGAGAGAAAGAGCAGAAATTCTACACTTT
CCTAAAGAACTCCTGTCTCCACCTCGGAGCTCCTGGGTACATCTGACCGCCTCTTCTGGGAACCCATGAAGGT
TCACGACATCCGCTGGAACTTTGAGAAGTTCTTGGTGGGGCCAGATGGTATACCCATCATGCGCTGGCACCACCG
GACCACGGTCAGCAACGTCAAGATGGACATCCTGTCTACATGAGGCGGCAGGCAGCCCTGGGGGTCAAGAGGAA
GTAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAGGGACTTTGTTTCAGGAAGAAATCCGTGTCTCCA
ACCACACTATCTACCCATCACAGACCCCTTTCTATCACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAG
TTCTGTGTACTGCCAGGCATGTGGGTGTGGGTGCAATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATT
GTGTGTGTGTGCATGGGTGTACAGCCACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCT
GCAGCTGTGTAGTGCTGGACAGTGACAACCCCTTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACTTATAC
CTAAACCCAAAGGAAAAACCAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACCTCAACCTTGGGGCCAGCAT
CTCCCACTGCCTCCAAATATTAGTAACTATGACTGACGTCCCCAGAAAGTTTCTGGGTCTACCACACTCCCCAACCC
CCCCACTCCTACTTCCTGAAGGGCCCTCCCAAGGCTACATCCCCACCCACAGTTCTCCCTGAGAGAGATCAACC
TCCCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTCTTCATGAGGG
AGGGGCCCCAAAGCCCTTGTGGGCGGACCTCCCTGAGCCTGTCTGAGGGGCCAGCCCTTAGTGCATTCAGGCTAA
GGCCCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACCCCTCACTGGTCCACTGGCTTGAG
ACTCACCCCGTCTGCCAGTAAAAGCCTTTCTGCAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 274

MARLLQASCLLSLLLAGFVSQSRGQEKSKMDCHGGISGTIYEYGALTIDGEEYIPFKQYAGKYVLFVNVASYXGL
TGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEKGDVNGEKEQKFYT
FLKNSCPPTSELLGTSDRLEWEPMKVHDIRWNFEKFLVGPDGIPIMRWHHRTTVSNVKMDILSYMRRQAALGVKR
K

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FIGURE 275

GGCACGAGGCCTGGGCGGCTCCGCTAGCTGTTTTTCGTCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGA
TGCAGCTCAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTGCGCCGGCCAGT
GGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTGCGCGCTGCTGC
TGCTGTTTTCCCCTCACGGCCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTA
GTCCTAAAGTGTA~~CT~~TCATGAAGCAGACCATTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCCA
ATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAAAAATGTCCC
CTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCATGATGCCGTGGCACAGGAAGGCC
AATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTCTGTTTAACAACGTGGATGGCCACCTCTATGAACTTG
ATGGACGAATGCCTTTTCCGGTGAACCATGGCGCCAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTCT
GCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCCTAATGCT
CTGTGGGAGGGACTTTGCTGATTTCCCCTCTTCCCTTCAACATGAAAATATATACCCCCCATGCAGTCTAAAAT
GCTTCAGTACTTGTGAAACACAGCTGTTCTTCTGTTCTGCAGACACGCCTTCCCCTCAGCCACACCCAGGCACTT
AAGCACAAGCAGAGTGACAGCTGTCCACTGGGCCATTGTGGTGTGAGCTTCAGATGGTGAAGCATTCTCCCCAG
TGTATGTCTTGTATCCGATATCTAACGCTTTAAATGGCTACTTTGGTTTCTGTCTGTAAGTTAAGACCTTGGATG
TGGTTTAATTGTTTGTCTCTCAAAGGAATAAACTTTTCTGCTGATAAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 276

MQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSPAPACALLLLFPLTAQHENFRKKQIEELKGQEV
SPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEG
QCRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSEDLLKDAAKVCREFTEREQGEVRFSAVALCKAA

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FIGURE 277

GGCCGTCGGCGGAGGCGCCATTTTGTGTAGCCGCCGAACCTTGTGGAGGTTCTGGGGCGCAGAACCGCTACTGC
TGCTTCGGTCTCTCCTTGGGAAAAAATAAAATTTGAACCTTTTGGAGCTGTGTGCTAAATCTTCAGTGGGACAAT
GGGTTCAGACAAAAGAGTGAGTAGAACAGAGCGTAGTGGAAGATACGGTTCATCATAGACAGGGATGACCGTGA
TGAGCGTGAATCCCGAAGCAGGCGGAGGGACTCAGATTACAAAAGATCTAGTGATGATCGGAGGGGTGATAGATA
TGATGACTACCGAGACTATGACAGTCCAGAGAGAGAGCGTGAAAGAAGGAACAGTGACCGATCCGAAGATGGCTA
CCATTGAGATGGTGACTATGGTGAGCACGACTATAGGCATGACATCAGTGACGAGAGGGAGAGCAAGACCATCAT
GCTGCGCGGCCCTTCCCATCACCATCACAGAGAGCGATATTCGAGAAATGATGGAGTCCTTCGAAGGCCCTCAGCC
TGCGGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGTGGTTTCGCCTTCGTGGAGTTTTATCACTTGCA
AGATGCTACCAGCTGGATGGAAGCCAATCAGAAAAAGTTGGTGATTCAAGGAAAGCACATTGCAATGCATTATAG
CAATCCCAGACCTAAGTTTGAAGATTGGCTTTGTAACAAGTGCTGCCTTAACAATTTTCAGGAAAAAGACTAAAATG
CTTCCGATGTGGAGCAGACAAGTTTGAAGTTGACTCTGAACAGGAAGTGCCCTCCTGGAACCACAGAGTCGGTTTCAGTCTGT
GGATTACTACTGTGATACGATCATTCTTCGGAACATAGCTCCGCACACTGTGGTGGATTCCATCATGACAGCACT
GTCTCCTTACGCGTCTTTAGCTGTCAATAACATCCGCCTCATAAAAGACAAACAGACCCAGCAGAACAGAGGCTT
CGCATTGTGTGAGCTGTCTCTGCAATGGATGCTTCTCAGCTGCTTCAGATATTACAGAGTCTCCATCCTCCTTT
GAAAATTGATGGCAAAACTATTGGGGTTGATTTTGCAAAAAGTGCCAGAAAAGACTTGGTCTCTCAGATGGTAA
CCGCGTCAGCGCCTTCTCTGTAGCTAGTACGGCTATTGCTGCTGCTCAGTGGTCATCCACCCAGTCTCAAAGTGG
TGAAGGAGGCAGTGTTGACTACAGTTATCTGCAACCAGGTCAAGATGGCTATGCCCAATATGCTCAGTATTACACA
GGATTATCAGCAGTTTTATCAACAACAAGCTGGAGGATTGGAATCTGATGCATCATCTGCATCAGGCACAGCAGT
GACCACCACCTCAGCGGCTGTAGTGTCCCAGAGTCCCTCAGCTGTATAATCAAACCTCCAATCCACCTGGCTCTCC
GACTGAGGAAGCACAGCCTAGCACTAGCACAAAGTACACAGGCCCCAGCCGCTTCCCCTACTGGTGTAGTTCCTGG
TACCAAATATGCAGTACCTGACACGTCCACTTACCAGTATGATGAATCTTCAGGATATTACTATGATCCGACAAC
AGGGCTCTATTATGACCCCAACTCGCAATACTACTATAATTCCCTTGACCCAGCAGTACCTTTACTGGGATGGGGA
AAAAGAGACCTACGTGCCAGCTGCAGAGTCTAGCTCCCACCAGCAGTCGGGCCTGCCTCCTGCAAAAAGAGGGGAA
AGAGAAGAAGGAGAAAACCAAGAGCAAAACAGCCCAGCAGATTGCCAAAGACATGGAACGCTGGGCTAAGAGTTT
GAATAAGCAGAAAAGAAAACTTTAAAAATAGCTTTCAGCCTGTCAATTCCCTTGAGGGAAGAAGAAAGGAGAGAATC
TGCTGCAGCAGACGCTGGCTTTGCTCTCTTTGAGAAGAAGGGAGCCTTAGCTGAAAGGCAGCAGCTCATCCCAGA
ATTGGTGCAGAAATGGAGATGAGGAGAATCCCCTCAAAGGGGTCTGGTTGCTGCTTACAGTGGTGACAGTGACAA
TGAGGAGGAGCTGGTGGAGAGACTTGAGAGTGAGGAAGAGAAGCTAGCTGACTGGAAGAAGATGGCCTGTCTGCT
CTGCCGGCGCCAGTTCCCGAACAAAGATGCCCTAGTCAGGCACCAGCAACTCTCAGACCTTCACAAGCAAAACAT
GGACATCTACCGACGATCCAGGCTGAGCGAGCAGGAGCTGGAAGCCTTGAGAGCTAAGGGAGAGAGAGATGAAATA
CCGAGACCGAGCTGCAGAAAGACGGGAGAAGTACGGCATTCCAGAACCTCCAGAGCCCCAAGCGCAAGAAGCAGTT
TGATGCCGGGCACTGTGAATTACGAGCAACCCACCAAAGATGGCATTGACCACAGTAACATTGGCAACAAGATGCT
GCAGGCCATGGGCTGGCGGGAAGGCTCTGGCTTGGGACGAAAGTGTCAGGCATTACGGCTCCCATTGAGGCTCA
AGTTCGGCTAAAGGGAGCTGGCCTAGGAGCCAAAGGCAGCGCATATGGTTTGTGGGGCGCCGATTCTTACAAAGA
TGCTGTCCGGAAGCCATGTTTGGCCGGTTCACTGAGATGGAGTGAAGAGAGAGAGAGAGAGAGATGACAAGGA
GCACAAGAAGTGGTCCATCTCCCGAATTTCGCTGTTACCGCCTGTCTCTTTAAGGGCATGCCTTGTGCTGTTAATA
GATCTTAGGGTGAACCACTTCATTCTGCAGGGTTCTCCCTCCACCTTAAAGAAGTTCCCCTTATGTGGGTGACC
TGGTGAATGGCCTTCCCTCCCGCCAGAGGGCTTGTGAACAGACCGGAGAGGACAGTGGATTGTTTATACTCCAGT
GTACATAGTGTAATGTAGCGTGTTTACATGTGTAGCCTATGTTGTGGTCCATCAGCCCCCTCACATTCCTAGGGGT
TTGAGATGCTGTAGGTGGTATGTGACACCAAAGCCACCTCTGTCAATTTGTTGTGATGTCTTTTCTTGCCAAAAGC
CTTGTGTATATTTGTATATTACACATTTGTACAGAAATTTTGAAGATTTTCAGTCTAGTTGCCAAATCTGGCTCC
TTTACAAAAGAAATACCTTGAGAAAAA

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FIGURE 278

MGSDKRVSRTERSGRYGSIIDRDDRDERESRSRRRDSYKRSSDDRRGDRYDDYRDYDSPERERERRNSDRSE
YHSDGDYGEHDYRHDISDERESKTI MLRGLPITITESDIREMMESFEGPQPADVRLMKRKTGVS
RGFAFVEFYHLQDATSWMEANQKKLVIQGKHIAHYSNPRPKFEDWLCNKCCCLNNFRKRLKCFRCGADKFD
SEQEVPPGTTESVQSVDYYCDTII LRNIAPHTTVVDSIMTALSPYASLAVNNIRLIKDKQTQQNRGFAFVQ
LSSAMDASQLLQILQSLHPP LKIDGKTIGVDFAKSARKDLVLS DGNRVSAF SVASTAIAAAQWSSTQ
SQSGEGGSVDYSYLQPGQDGYAQYAYS QDYQQFYQQQAGGLES DASSASGTAVTTTSA
AVVSQSPQLYNQTSNPPGSPTEEAQPSTSTSTQAPAA SPTGVVPGTKYAVPDTSTYQYDESSG
YYYDPTTGLYYDPNSQYYYNLSLTQQYLYWDGEKETYPAAESSSHQQSGLPPAKEG
KEKKEKPKSKTAQQIAKDMERWAKSLNKQKENFKNSFQPVNSLREEERRESAAADAGFALFEKK
GALAERQQQLIP ELVRNGDEENPLKRGLVAAYS GDS DNEEELVERLESEEEKLADWKKMACLLC
RRQFPNKDALVRHQQLSDLHKQNMDIYRRSRLSEQELEALELREREMKYRDRAAERREKYGI
PEPPEPKRKKQFDAGTVNIEQPTKDGIDHSNIGNKM LQAMGWREGSGLGRKCQGITAPIEAQVRLK
GAGLGAKGSAYGLSGADSYKDAVRKAMFARFTEME

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FIGURE 279

AGCCCCGCCCCAGGCGAGGGCGCCGCACCCACACCGCGCTGCGCAGTTTTGTTCTGCTCCAGCTGTTCTGAAGGTG
ATCCAGACGCAAGATGGCTGTCCTCTCTAAGGAATATGGTTTTGTGCTTCTAACTGGTGCTGCCAGCTTTATAAT
GGTGGCCACCTAGCCATCAATGTTTCCAAGGCGCAAGAAGTACAAAGTGGAGTATCCTATCATGTACAGCAC
GGACCTGAAAATGGGCACATCTTCAACTGCATTACGCGAGCCCACCAGAACACGTTGGAAGTGTATCCTCCCTT
CTTATTTTTTCTAGCTGTTGGAGGTGTTTACCACCGCGTATAGCTTCTGGCCTGGGCTTGGCCTGGATTGTTGG
ACGAGTTCTTTATGCTTATGGCTATTACACGGGAGAACCCAGCAAGCGTAGTCGAGGAGCCCTGGGGTCCATCGC
CCTCCTGGGCTTGGTGGGCACAACCTGTGTGCTCTGCTTCCAGCATCTTGGTTGGGTAAAGTGGCTTGGGCAG
TGGACCCAAATGCTGCCATTAAGAATTATAGGGGTTTAAAACTCTCATTCTTTAAATGACTTACCTTTATT
TCCAGTTACATTTTTTTTCTAAATATAATAAAAACTTACCTGGCATCAGCCTCATACTAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 280

MAVLSKEYGFVLLTGAASFIMVAHLAINVSKARKKYKVEYPIMYSTDPENGHIFNCIQRAHQNTLEVYPPFFLFFL
AVGGVYHPRIASGLGLAWIVGRVLYAYGYTGEPSKRSRGALGSIALGLVGTTVCSAFQHLGWVKSGLGSGPKC
CH

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FIGURE 281A

GGCCTGGGTCTGACGCGGCCCTGTTTCGAGGGGGCCTCTCTTGTATTATTTATTTATTTTCCGTGGGTGCCTCCGAG
TGTGCGCGCGCTCTCGCTACCCGGCGGGGAGGGGGTGGGGGGAGGGCCCGGGAAAAGGGGGAGTTGGAGCCGGGG
TCGAAACGCCGCGTGACTTGTAGGTGAGAGAACGCCGAGCCGTCGCCGAGCCTCCGCCGCCGAGAAGCCCTTGT
TCCCCTGCTGGGAAGGAGAGTCTGTGCCGACAAGATGGCGGACGGGGAGCTGAACGTGGACAGCCTCATCACCC
GGCTGCTGGAGGTACGAGGATGTCGTCCAGGAAAGATTGTGCAGATGACTGAAGCAGAAGTTCGAGGCTTATGTA
TCAAGTCTCGGGAGATCTTTCTCAGCCAGCCTATTCTTTTGAATTGGAAGCACCCTGAAAATTTGTGGAGATA
TTCATGGACAGTATACAGATTTACTGAGATTATTTGAATATGGAGGTTTCCCACCAGAAGCCAACCTATCTTTCT
TAGGAGATTATGTGGACAGAGGAAAGCAGTCTTTGGAAACCATTGTGTTGCTATTGGCTTATAAAATCAAATATC
CAGAGAACTTCTTTCTCTTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTATGGAATTCTATGATGAAT
GCAAACGAAGATTTAATATTAAATTGTGGAAGACCTTCACTGATTGTTTTAACTGTCTGCCTATAGCAGCCATTG
TGGATGAGAAGATCTTCTGTTGTCATGGAGGATTGTCACCAGACCTGCAATCTATGGAGCAGATTCCGAGAATTA
TGAGACCTACTGATGTCCCTGATACAGGTTTGTCTGTGATTGCTATGGTCTGATCCAGATAAGGATGTGCAAG
GCTGGGGAGAAAAATGATCGTGGTGTTCCTTTACTTTTGGAGCTGATGTAGTCAGTAAATTTCTGAATCGTCATG
ATTTAGATTGATTGTCGAGCTCATCAGGTGGTGGAAAGATGGATATGAATTTTTTGTAAACGACAGTTGGTAA
CCTTATTTTCAGCCCCAAATTACTGTGGCGAGTTTGATAATGCTGGTGAATGATGAGTGTGGATGAAACTTTGA
TGTGTTCAATTCAGATATTGAAACCATCTGAAAAGAAAGCTAAATACCAGTATGGTGGACTGAATTCGGACGTC
CTGTCACTCCACCTCGAACAGCTAATCCGCCGAAGAAAAGGTGAAGAAAGGAATTCTGTAAAGAAACCATCAGAT
TTGTTAAGGACATACTTCATAATATATAAGTGTGCACTGTAAACCATCCAGCCATTTGACACCCCTTTATGATGT
CACACCTTTAACTTAAGGAGACGGGTAAAGGATCTTAAATTTTTTCTAATAGAAAGATGTGCTACACTGTATTG
TAATAAGTATACTCTGTTATAGTCAACAAAGTTAAATCCAAATTCAAATTTATCCATTAAAGTTACATCTTCATG
TATCACAATTTTTAAAGTTGAAAAGCATCCCAGTTAAACTAGATGTGATAGTTAAACCAGATGAAAGCATGATGA
TCCATCTGTGTAATGTGGTTTTAGTGTGCTTGGTTGTTAATTATTTTGAGCTTGTGTTTTGTTTTGTTTTGTTTT
CACTAGAATAATGGCAAATACTTCTAATTTTTTCCCTAAACATTTTTTAAAGTGAAATATGGGAAGAGCTTTAC
AGACATTACCAACTATTATTTTCCCTTGTGTTATCTACTTAGATATCTGTTTAATCTTACTAAGAAAACCTTCGC
CTCATTACATTAATAAGGAATTTTAGAGATTGATTGTTTTAAAAAAAATACGCACATTGTCCAATCCAGTGATT
TTAATCATACAGTTTGACTGGGCAAACCTTTACAGCTGATAGTGAATATTTTGCTTTATACAGGAATTGACACTGA
TTTGGAATTTGTGCACTCTAATTTTTAACTTATTGATGCTCTATTGTGCACTAGCATTTCATTTAAGATAAGGCTC
ATATAGTATTACCCAAGTAGTTGGTAATGTGATTATGTGGTACCTTGGCTTTAGGTTTTATTTCGCACGGAACAC
CTTTTGGCATGCTTAACCTTCTGGTAACACCTTCACCTGCATTGGTTTTCTTTTTCTTTTTCTTTTTGGT
GTTGTATTTTTTGAGTTGTTGTTTGTGTTTTAGATCCACAGTACATGAGAATCCTTTTTTGACAAGCCTTGGAAG
CTGACACTGTCTCTTTTTCTCCCTCTATACGAAGGATGTATTTAAATGAATGCTGGTCAGTGGGACATTTTGTG
AACTATGGGTATTGGGTGCTTAACTGTCTAATATTGCCATGTGAATGTTGTATACGATTGTAAGGCTTATGTCAC
TAAAGATTTTTTATTCTGATTTTTTTCATAATCAAAGGTCATATGATACTGTATAGACAAGCTTTGTAGTGAAGTAT
AGTAGCAATAATTTCTGTACCTGATCAAGTTTATTGCAGCCTTTCTTTTCTATTTCTTTTTTTAAGGGTAGT
ATTAACAAATGGCAATGAGTAGAAAAGTTAACATGAAGATTTTAGAAGGAGAGAACTTACAGGACACAGATTTGT
GATTCCTTGACTGTGACACTATTGGATGTGATTCTAAAAGCTTTTATTGAGCATTGTCAAATTTGTAAGCTTCAT
AGGGATGGACATCATATCTATAATGCCCTTCTATATGTGCTACCATAGATGTGACATTTTTGACCTTAATATCGT
CTTTGAAAATGTTAAATTGAGAAACCTGTTAACTTACATTTTATGAATTGGCACATTGTATTACTTACTGCAAGA
GATATTTCAATTTTCAGCACAGTGCAAAAGTTCTTTAAATGCATATGTCTTTTTTCTAATTCGGTTTTGTTTTA
AAGCACATTTTAAATGTAGTTTTCTCATTTAGTAAAAGTTGTCTAATTGATATGAAGCCTGACTGATTTTTTTTT
TCCTTACAGTGAGACATTTAAGCACACATTTTATTCACATAGATACTATGTCCTTGACATATTGAAATGATTCTT
TTCTGAAAGTATTCATGATCTGCATATGATGTATTAGGTTAGGTCACAAAGGTTTTATCTGAGGTGATTTAAATA
ACTTCTGATTGGAGTGTGTAAGCTGAGCGATTTCTAATAAAATTTTAGTTGTACACTTTTAGTAGTCATAGTGA
AGCAGGTCTAGAAAATAAGCCTTTGGCAGGGAAAAAGGGCAATGTTGATTAATCTCAGTATTAAACCACATTAAT
CTGTATCCCATTTGTCTGGCTTTTGTAAATTCATCCAGGTCAAGACTAAGTATGTTGGTTAATAGGAATCCTTTTT
TTTTTTTTTGTAAAGACTAAATGTGAAAAAATAATCACTACTTAAGCTAATTAATATTGGTCATTAAATTTAA
GGATGGAAATTTATCATGTTTTAAAAATTATTCAAGCACTCTTAAACCACTTAAACAGCCTCCAGTCATAAAAT
GTGTTCTTTACAAATATTGCTTGGCAACACGACTTGAAATAAATAAACTTTGTTTCTTAGGAGAAAATGATTC

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FIGURE 281B

TGTAATTCCAGTGTCTACTAATTTATATTGTTCTTTCTCTGATTTTTTTTCAGGTTAGTGATTTTTTTGTATACAA
TTTAATCCAAATGTTATGACATTCAGAAATCATGAAACACAGTAGATATCTGTTATAATGTGGTGTATCACATGG
ATTATAAAGCAAAGTTATGGTCGATTTCTATTCTTGAAAGAATCAACTACAGTGAATCCTTTGCATTTGAAGCCT
TAACATGCATTGCTTTAATTTTGCCAGGGACAAATTTTAATAATCAGCAAGACTGGTTTGTGCAAAGCGTTGAG
TCATCAGGTATTTAGAGCCTAGCCAGCTACCCAGTATCCATGCTGCCATATCCCTTCATTGTAAAAAGTACCTAA
ACATTCGTGAAATGATTTTTTTTAGCTGAAAAATGCTGGCAAGAAGAATTTTAAAGCTTAAAAATAGGTGGTAAAT
TTGAAGTATGAGTGTGTTTACGAGAAACATAGGCTTTTCAAAAAAATTTTATTCAAGGCAAAGCAAGGAACATC
TTGAGATATGTCTCAAGAATATAAAGATGTATTATTTAAGCCAAGGAGCTGAAATATATCTCAGTTTATAAATT
CAGGTATATTCTTTTTGTCTCCATGGCAACCATAACTTTTGAACCAAAAAAATTGTTTTTACATCTTTATGCTG
AAAAATGTGTTTAGATTAGGAATATGGTCGGGCTGAATTTGCTGTTGCTCCCTAACCAAATCCACCTCTTGTTTTT
CTTGAGTCCATGGCTAAATCAAAGCTGCCCCTGAGAAGAGACTTAATCCAAGCCTGATTGTACTAGTGGCATC
ACTTAGAAGTAGGCTTTCCCTCTTCCTAGTAGATCTCAATGTTTTATAATTCCTTAAAACAGCTGAAAAATTGGGA
CAACATACTTTACGCAATGAACAGTAGTTAAATAGGAAATAAACTAGTTCCATGTAAGTATACACCTAGAGTTTT
AATTACCTTTATAATGTTTCTTAAAAGTGAACTTAGATACAATTGTGATTGGATACTTAGATACTAAGTGAAAC
TTAGTGTAACAATTTTGATCTGTTAAATTGGATTTTACATGTACATTTGAATGCCAGAATTTCTAAATAAAATCCC
CTGGTTAGGAAATTTTAAAAGTCAAAGCTTGTTTTCTTCAACCCTACCTTCTACATTGGTTGACTTAGACCGTA
AGCTTTTTAAGTTTCTCATTGTAATTTACCTTCTCATGCAGATTGCTGATGTTTTATTAAACCTTATTTTACAA
AAATGAAAAAA

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FIGURE 282

GLGLTRPCSRGPLLFIYLF SVGASECARALATRRGGGGGRAREKGELEPGSKRRVTCRRERRAVAAASAAEKPLF
PLLGRVVCADKMADGELNVDSLITRLLEVRCRPGKIVQMTEAEVRGLCIKSREIFLSQPILLELEAPLKICGDI
HGQYTDLLRLFEYGGFPPEANYLFLGDYVDRGKQSLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDEC
KRRFNIKLWKTF TDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRRIMRPTDVPDTGLLCDLLWSDPDKDVQG
WGENDRGVSFTFGADVVSFNLNRHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGGMMSVDETLM
CSFQILKPSEKKAKYQYGGLNSGRPVTPPRTANPPKKR

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FIGURE 283

AGTTGCAGGCGAGCAGGCGAGGAATCGCCGTGGCGTCTTGGTGTTCTCCACGCTGGTTTCGCAGGTGAAGAG**ATCG**
CGTTTGTGAAGAGTGGCTGGTTGCTGCGACAGAGTACTATTTTGAAGCGCTGGAAGAAGAACTGGTTTGATCTGT
GGTCGGATGGTCACCTGATCTATTATGATGACCAGACTCGGCAGAATATCGAGGATAAGGTCCACATGCCAATGG
ACTGCATCAACATCCGCACGGGGCAGGAATGTCGGGATACTCAGCCCCGGATGGAAAGTCAAAAGACTGCATGC
TCCAGATTGTTTGTGAGATGGGAAAACAATTAGTCTTTGTGCAGAAAGCACAGATGATTGCTTGGCCTGGAAAT
TTACACTCCAAGATTCTAGGACAAACACAGCGTATGTGGGCTCTGCAGTCATGACCGATGAGACATCCGTGGTTT
CCTCACCTCCACCATACACGGCCTATGCTGCACCGGCCCTGAGGCTTATGGCTATGGGCCATACGGTGGTGCGT
ACCCGCCAGGAACTCAAGTTGTCTACGCTGCGAATGGGCAGGCGTATGCCGTGCCCCACCAGTACCCATATGCAG
GACTTTATGGACAGCAGCCTGCTAACCAAGTCATCATTCGAGAGCGCTATCGAGACAACGACAGCGACCTGGCAC
TGGGCATGCTGGCAGGAGCAGCCACGGGCATGGCCTTAGGGTCTCTATTTTGGGTCTTCT**TAG**GGGCCTCAAGGTC
TTGATGTGCATAGCTTCTGATAACCCTGTGTGCAATAATATGATTTGCAGGGCATTCTGTGTTGTGACAAAAGTT
TTTAATAATAGTTTTAATCATTCTTTGAAAGTAGTGATGTCATAATTGTAATAATCCACATAAGTACCACAGAG
AAGGGTTTGAAGTGTGCTATTTTGTTCAAATGTTGACTCTCCGGGGGCACTGGCTCATTCCAAGACTGTTCTTGT
GCAACTCTCAGAATACCTTATTTGAGCATACTGTTTTGAAAGGCATTTTCTTTTTAGAGTTAGGTGTAGTGCTT
AAGGGTTAATTTATTTTCAIGTTATGCCAGTAATATAGTGTTGTATGCCTATTGAGTGATTGTGGCAAGAAAAGC
TACAGCTTCTTTGCGTTTAACTTTTTCAAACCACAGACCAGAACTGGTTGCATGTTACTTTAGGAGTTGTGGGTT
GGTAAGCTCCCAGGTACTTCCCGAGGCTATGGTGTGAGAGCCCCGTCCTGCCCTCTGGGGCTCCACAGGCCCT
GGCAAGGCCGATGGCTCAGGATGATGGGGCACAGCCCGCCTTTGAACAATCATGCTTCAGAAATCTGCCTGACCC
TAGCTGCTGCTGCTCACTTTATTCTTGATGGCTTTGGTAGGCATACTTGAGAACATATCCACATTAGGA
ATTGATTTAAGCCTGAGAGTTTGAGGGCTTTAATCCTTTAAACTTGAGAGAAGCTGGCTGGGCGCGGTGGCTCAC
GCCTGTAATCCCAGCACTTTGAGAGACCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAA
CACGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCGTGGTGGCAGGCGCCTGTGGTCCCAGCT
ACTCGGGAGGCTGAGGCAGGAGAATAGTGTGAACCCAGGAGGCGAGCTTGCAGTGAGCCAAGATAGTGCCACTG
CACTTCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 284

MAFVKSGWLLRQSTILKRWKKNWFDLWSDGHLIYYDDQTRQNIEDKVHMPMDCINIRTGQECRDTQPPDGKSKDC
MLQIVCRDGKTISLCAESTDDCLAWKFTLQDSRTNTAYVGSVMDETSTVSSPPPYTAYAAPAPEAYGYGFPYGG
AYPPGTQVVYAANGQAYAVPHQYPYAGLYGQQPANQVIIRERYRDNDSDLALGMLAGAATGMALGSLFWVF

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FIGURE 285

GGGAGAACC GTTCGCGGAGGAAAGGCGAACTAGTGTGGGATGGCCACCAACTGGGGGAGCCTCTTGCAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTCAGCCAGAACGCTGCCTTCCTGGA
GCAAACCTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCCAGAÇTGTGTTCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCCAGCTGT
GCACCGACATGTTCTCAGTGTCTTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCAGTGGTCCAGTGCATTTGAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCCTGGACAACCCATAACCTGTGTGAGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCATTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCAGCTTTCCATCTGAGGACCAGAAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTGT

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FIGURE 286

MATNWGSLQLQDKQQLLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFP SLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSDYMFORSADGSPALKQIEINTISA
SFGGLASRTPAVHRHVL SVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDISEKGS LDQDRRLFVDGQEI AVVYFRDGYMPRQYSLQNWEARLLILERSHAAKCPDIATQ
LAGTKKVQQELSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEGDQAIAEALAAPSRFVLKPQREGGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNFPYPV

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FIGURE 287

CGATCAGATCGATCTAAGATGGCGACTGTGCGAACCGGAAACCACCCCTACTCCTAATCCCCCGACTACAGAAGAG
GAGAAAACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCCTACAGAACAGATGGGCA
CTCTGGTTTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACCTGCGGCTGATCTCCAAGTTTGATACTGTT
GAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTT
AAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAA
CAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTGATGAC
TACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAA
TGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCTCCAAAGATAGTG
ATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAAATAGGTTTGTGTTTAAAGAA
GACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTGGGAGCTGAACCAAAGCCTCTTCAA
AAAGCAGAGTGGACTGCATTTAAATTTGATTTCATCTTAATGTTACTCAGATATAAGAGAAGTCTCATTGCGCT
TTGTCTTGTACTTCTGTGTTTCAATTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTCCACTATCCCAATCAAAGAATTAC
AGTACACATCCCCAGAATCCATAAATGTGTTTCTGGCCCACTCTGTAATAGTTTCACTAGTAATTACCATTAATTAC
ATACAGATTTTACCTATCCACAATAGTCAGAAAAACAACTTGGCATTCTTATACTTTACAGGAAAAAAAAATTCTGT
TGTTCCATTTTATGCAGAAGCATATTTTGCTGGTTTGAAAGATTATGATGCATACAGTTTTCTAGCAATTTTCTT
TGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAATTTATTTGTTTCCCTAC
TTGATAATATTAGTGATTCTGATTTTCACTTTTCAATTTGTTTTGCTTAAATTTTTTTTTTTTTTTTTTCTCATGTA
ACATTGGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTT
TTTGTTTTTTGTAACTACAAAGCTTTGCTACAAATTTATGCATTTTCAATCAAATCAGTGATCTATGTTTGTGTGA
TTTCTTAAACATAATTGTGGATTATAAAAAATGTAAACATCATAATTACATTCCTAACTAGATTAGTATGTCTGT
TTTTGTATCTTTATGCTGTATTTTAACACTTTGTATTACTTAGGTTATTTTGTCTTTGGTTAAAAATGGCTCAAGT
AGAAAAGCAGTCCCATTCATATTAAGACAGTGTACAAACTGTAAATAAAATGTGTACAGTGAATTGTCTTTTAG
ACAACCTAGATTTGTCCTTTTATTTCTCCATCTTTATAGAAGGAATTTGTACTTCTTATTGCAGGCAAGTCTCTAT
ATTATGTCCTCTTTTGTGGTGTCTTCCATGTGAACAGCATAAGTTTGGAGCACTAGTTTGATTATTATGTTTATT
ACAATTTTAAATAAATTGAATAGGTAGTATCATATATATGGA

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FIGURE 288

MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSKTWQANLRLISKFDTVEDFWAL
YNHIQLSSNLMPGCDYSLFKDGI EPMWEDEKNKRGGRWLITLNKQQRSDLD RFWLETLLCLIGESFDDYSDDVC
GAVVNVRAKGDKIAIWTTECENREAVTHIGRVYKERLGLPPKIVIGYQSHADTATKSGSTTKNRFVV

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FIGURE 289

GGCAGTTGGTAAGAAGACTAGATTGCATGTACAAAGACAGGTTTACTAAGTGCTGTACAGTGGTCCTGAGGTTACAG
TTGAATTAGAAAAACGAAATGTACTTACAGGAAATAAGAAAGCAAACCTTTCAAATGAGAGTGATGATTTCTTTA
AAAAAATCAGTTTTTTTCTCTCAAATAATGTTCTTTATTTACGAAATCGTCAATCTTAAGCATGAGCAGGGAT
AAACAACCTCCTAGAAGGAACTCAATTCA

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FIGURE 290

GCCTAATTAAAAGGCGGCGGAAGAAGGTGGGAGGGTCATGACGCAGCGAGTTTCAGTCGTGACTTTTCTGGGGGC
ATCGCGGCGTCCCCTTTTTTTTTGCCTTTAAAGTAAAACGTCGCCCCGACGCACCCCCCGGTATTTCTGGGGGGCG
GAGGCGGCGGGCCACGGCGCGAAGAGGGGCGGTGCTGACGCCGGCCGGTCACGTGGGCGTGTTGTGGGGGGGAGG
GGCGCCGCGCGCGGTTCGGTTCCGGGCGGTTGGGAGCGCGCGAGCTAGCGAGCGAGAGGCAGCCGCGCCCGCCGC
CGCCCCCTGCTCTGTATGCCGCTCTCTCCCGGCGCGGCCGCCGCGCCGATCACAGCAGCAGGAGCCACCGCCGCCGC
GTTGATGTGGTTGGGCCGGGGCTGAGGAGGCCGCCAAGATGCCGCGAGTCCAAGTCCCGGAAGATCGCGATCCTGG
GCTACCGGTCTGTGGGGAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAA
CCATAGAAAACACTTTTACAAAGTTGATCACAGTAAATGGACAAGAATATCATCTTCAACTTGTAGACACAGCCG
GGCAAGATGAATATTCTATCTTTCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTA
CATCAATCAAAAGTTTTGAAGTGATTAAAGTTATCCATGGCAAATTGTTGGATATGGTGGGGAAAGTACAAATAC
CTATTATGTTGGTTGGGAATAAGAAAGACCTGCATATGGAAAGGGTGATCAGTTATGAAGAAGGGAAAGCTTTGG
CAGAATCTTGGAATGCAGCTTTTTTGGAAATCTTCTGCTAAAGAAAATCAGACTGCTGTGGATGTTTTTCGAAGGA
TAATTTTGGAGGCAGAAAAAATGGACGGGGCAGCTTCACAAGGCAAGTCTTCATGCTCGGTGATGTGATTCTGCT
GCAAAGCCTGAGGACACTGGGAATATATTCTACCTGAAGAAGCAAAGTCCCGTTCTCCTTGAAGATAAACTATG
CTTCTTTTTTCTTCTGTAAACCTGAAAAGATATCATTTGGGTGAGAGCTCCCCTCCCTTCAGATTATGTAACTCT
GAGTCTGTCCAAATGAGTTCACCTCCATTTTCAAATTTTAAGCAATCATATTTTCAATTTATATATTGTATTTCT
TAATATTATGACCAAGAATTTTATCGGCATTAATTTTTCAGTGTAGTTTGTGTTTAAATAATGTAATCATCAA
AATGATGCATATTGTTACACTACTATTAAGCTTAGGCTTCAGTATATCAGTGTTTATTTTATTGTGTTAAATGTATA
CTTGTAATAAAATAGCTGCAAACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 291

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIFPQTYS
IDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERSISYEEGKALAESWNAAFLESSA
KENQTAVDVFERRIILEAEKMDGAASQGKSSCSVM

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FIGURE 292

CCCGGCAACCACGAGCCCAGCCAATCAGCGCCCCGGACTGCACCAGAGGCCATGGTCGGCAGAAGAGCACTGATCG
TACTGGCTCACTCAGAGAGGACCTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGGCTTTGAAGAAGAAAG
GATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTTCAATCCCATCATTTCCAGAAAGGACATCACAGGTA
AACTGAAGGACCCTGCGAACTTTAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAGGCCATCTGAGCCCAG
ATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGCAGACCTTGTGATATTCCAGTTCCCCCTGCAGTGGTTTGGAG
TCCCTGCCATTCTGAAAGGCTGGTTTGAGCGAGTGTTTCATAGGAGAGTTTGCTTACACTTACGCTGCCATGTATG
ACAAAGGACCCTTCCGGAGTAAGAAGGCAGTGCTTTCCATCACCCTGGTGGCAGTGGCTCCATGTACTCTCTGC
AAGGGATCCACGGGGACATGAATGTCATTCTCTGGCCAATTTCAGAGTGGCATTCTGCATTTCTGTGGCTTCCAAG
TCTTAGAACCTCAACTGACATATAGCATTGGGCACACTCCAGCAGACGCCCCGAATTCAAATCCTGGAAGGATGGA
AGAAACGCCTGGAGAATATTTGGGATGAGACACCCTGTATTTTGTCTCCAAGCAGCCTCTTTGACCTAAACTTCC
AGGCAGGATTCTTAATGAAAAAAGAGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATC
ACTTGGGCAAGTCCATCCCAACTGACAACCAGATCAAAGCTAGAAAATGAGATTCCCTTAGCCTGGATTTTCTTCT
AACATGTTATCAAATCTGGGTATCTTTCCAGGCTTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTTCTTT
TTCCACAAGGAATAAATGAGAGGGAATCGACCGTATTCGTGCATTTTTGGATGCATTTTTAACTGATTCTTATGA
TTACTATCATGGCATATAACCAAAATCCGACTGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAG
AAAAATGTTCTTTAAAGGCATCTACACAATTTAATTCCTCTTTTTAGGGTCAAAGTTTAGGGTACAGTTGGCTAG
GTATCATTCAACTCTCCAATGTTCTATTAATCACCTCTCTGTAGTTTATGGTCAGAAGGGAATTGCTCAGAGAAG
GTAAAGACTGAATCTACCTGCCTAAGGGACTTAACTTGTTTGGTAGTTAGCCATCTAATGCTTGTTTATGATAT
TTCTTGCTTTCAATTACAAAGCAGTTACTAATATGCCTAGCACAAAGTACCCTCTTGCTCAGCTTTTGTGTTTA
TATACAGTACACAGATACCTTGAAAGGAAGAGCTAATAAATCTCTTCTTTGCTGCAGTCATCTACTTTTTTTTA
ATTAAAAAAATTTTTTTTTGAAGCAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCAC
TGCAACCTCTGCCTCCCAGGTTCCAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATGACAGGCGCCTGC
CATCATGCCTGACTAATTTTTGTATTTTAGTAGAGACGGCGTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTC
CTGACCTCAGGTGATCCGCCTACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGATCCACCACACCTGGCCC
TTGCAATCTTCTACTTTAAGGTTTGCAAGAGATAAACCAATAAATCCACACCGTACATCTGCAATATGAATCCAA
GAAAGGAAATAGTACCTTCAATACTTAAAAATAGTCTTCCACAAAAAATACTTTATTTCTGATCTATACAAATTT
TCAGAAGGTTATTTTCTTTATCATTGCTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGG
GTACAATTGTAAACCTAGAGTTTTATCACTTTGGTGAACAGTTTTGGCATAATAGTCAATTTCTACTTCTGGAA
GTCATCTCATTCCACTGTTGGTATTATATAATTCAAGGAGAATATGATAAAACACTGCCCTCTTGTGGTGCATTG
AAAGAAGAGATGAGAAATGATGAAAAGGTTGCCTGAAAAATGGGAGACAGCCTCTTACTTGCCAAGAAAAATGAAG
GGATTGGACCGAGCTGGAACCTCCTTTACCAGATGCTGACTGGCACTGGTGGTTTTTGTCTCTCGACATATCCA
CAATAGCTGACGGCTGGGTGTTTCAGTTTGCAAAATATTTTGTGCTTCATCTTCACTGCAATTTTGTGTAAAT
TTCTCAAAGATCTAATTAATAAATAAAATTCATTTCTACAGACTCA

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FIGURE 293

MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEVVESDLYAMNPNPIISRKDITGKLKDPANFQYPAESVLA
YKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKGWFERVFIGEFAYTYAAMYDKGPFRRSKKAVLSITTG
GSGSMYSLQGIHGDMNVILWPIQSGILHFCGFQVLEPQLTYSIGHTPADARIQILEGWKKRLENIWDETPLYFAP
SSLFDLNFQAGFLMKKEVQDEEKNNKFGLSVGHHLGKS IPTDNQIKARK

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FIGURE 294

TGCGCCACGATGTCCGGGGAGTCAGCCAGGAGCTTGGGGAAGGGAAGCGCGCCCCGGGGCCGGTCCCGGAGGGC
TCGATCCGCATCTACAGCATGAGGTTCTGCCCCTTGCTGAGAGGACGCGTCTAGTCCTGAAGGCCAAGGGAATC
AGGCATGAAGTCATCAATATCAACCTGAAAAATAAGCCTGAGTGGTTCTTTAAGAAAAATCCCTTTGGTCTGGTG
CCAGTTCTGGAAAACAGTCAGGGTCAGCTGATCTACGAGTCTGCCATCACCTGTGAGTACCTGGATGAAGCATAC
CCAGGGAAGAAGCTGTTGCCGGATGACCCCTATGAGAAAGCTTGCCAGAAGATGATCTTAGAGTTGTTTTCTAAG
GTGCCATCCTTGGTAGGAAGCTTTATTAGAAGCCAAAATAAAGAAGACTATGCTGGCCTAAAAGAAGAATTTCTG
AAAGAATTTACCAAGCTAGAGGAGGTTCTGACTAATAAGAAGACGACCTTCTTTGGTGGCAATTCTATCTCTATG
ATTGATTACCTCATCTGGCCCTGGTTTGAACGGCTGGAAGCAATGAAGTTAAATGAGTGTGTAGACCACACTCCA
AAACTGAAACTGTGGATGGCAGCCATGAAGGAAGATCCCACAGTCTCAGCCCTGCTTACTAGTGAGAAAGACTGG
CAAGGTTTCCTAGAGCTCTACTTACAGAACAGCCCTGAGGCCTGTGACTATGGGCTCTTGAAGGGGGCAGGAGTCA
GCAATAAAGCTATGCTCTGATATTTTCCTTCAGTAAAAAAAAA

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FIGURE 295

MSGESARSLGKGSAPPGPVPEGSIRIYSMRFCPFAERTRLVLKAKGIRHEVININLKNKPEWFFKKNPFGLVPVL
ENSQGQLIYESAITCEYLDEAYPGKKLLPDDPYEKACQKMLELFSKVP SLVGSFIRSQNKEDYAGLKEEF RKEF
TKLEEVLTNKKTTFFGGNSISMIDYLIWPWFERLEAMKLNCEVDHTPKLKLWMAAMKEDPTVSALLTSEKDWQGF
LELYLQNSPEACDYGL

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FIGURE 296

GGCCTGGGTGGCGAATTCGGCACGAGGCTCGCCGCTCGCTATGGCGTCGCTCACCGTGAAGGCCTACCTTCTGGG
CAAGGAGGACGCGGCGCGGAGATTTCGCCGCTTCAGCTTCTGCTGCAGCCCCGAGCCTGAGGCGGAAGCCGAGGC
TGCGGCGGGTCCGGGACCCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTGTTCCCCGCGCTGCGGCCTGGCGG
CTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTGGTTGCCTTTTCCAGTGACGAGGAATTGACAATGGCCAT
GTCCTACGTGAAGGATGACATCTTCCGAATCTACATTAAAGAGAAAAAGAGTGCCGGCGGGACCACCGCCACC
GTGTGCTCAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGGGCCTGTGGTAGG
AACCCGCTACAAGTGCAGCGTCTGCCCAGACTACGACTTGTGTAGCGTCTGCGAGGGAAAGGGCTTGCACCGGGG
GCACACCAAGCTCGCATTCCCCAGCCCCCTTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCGCTGGCTCCGGAA
GGTGAAACACGGACACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAAACTGGAGCCACGTCTCTCTCG
TGCAGGGGAGGCCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAGTGTGAATTTCT
GAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATATCGATGTGGAGCACGG
AGGGAAAAAGAAGCCGCTGACCCCCGTCTCTCCAGAGAGTTCAGCACAGAGGAGAAGAGCAGCTCACAGCCAAG
CAGCTGCTGCTCTGATCCCAGCAAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGCGGAGCAGATGAG
AAAGATCGCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGAGTCCGATAACTGTTTCAGGAGGAGATGATGA
CTGGACCCATCTGTCTTCAAAGAAGTGGACCCGTCTACAGGTGAACCTCCAGTCCCTACAGATGCCAGAATCCGA
AGGGCCAAGCTCTCTGGACCCCTCCCAGGAGGGACCCACAGGGCTGAAGGAAGCTGCCTTGTACCCACATCTCCC
GCCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCCAGATGCTGTCCATGGGCTTCTCTGATGAAGCGGCTG
GCTCACCAGGCTCCTGCAGACCAAGAAGTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATCC
CCCGCCGTTGTGACCACTTTTGCCACCTCTTCTGCGTGCCCCCTCTTCTGTCTCATAGTTGTGTTAAGCTTGCGT
AGAATTGCAGGTCTCTGTACAGGCCAGTTTCTCTGCCCTCTTCCAGGATCAGGGGTTAGGGTGCAAGAAGCCATT
TAGGGCAGCAAAACAAGTACATGAAGGGAGGGTCCCTGTGTGTGTGTGTGTGTGTTTCTGGGTGCCCTG
GCTCCTTGCAAGGCTGGGCTGCGAGACCAAGGCTCACTGCAGCGCGCTCCTGACCCCTCCCTGCAGGGGC
TACGTTAGCAGCCAGCACATAGCTTGCCCTAATGGCTTTCACCTTCTCTTTTGTGTTTAAATGACTCATAGGTCCC
TGACATTTAGTTGATTATTTTCTGCTACAGACCTGGTACACTCTGATTTTAGATAAAGTAAGCCTAGGTGTTGTC
AGCAGGCAGGCTGGGGAGGCCAGTGTGTGGGCTTCTGCTGGGACTGAGAAGGCTCACGAAGGGCATCCGCAAT
GTTGGTTTCACTGAGAGCTGCCTCCTGGTCTCTTACCACCTGTAGTTCTCTCATTTCCAAACCATCAGCTGCTTT
TAAAATAAGATCTCTTTGTAGCCATCCTGTAAATTTGTAAACAATCTAATTAAATGGCATCAGCACTTTAACCA
ATGACGTTTGATAGAGAGAAATGATTGACAGTAAGTTTATTGTTAATGGTTCTTACAGAGTATCTTTAAAGTG
CCTTAGGGGAACCTGTCCCTCCTAACAAGTGTATCTCGATTAAATACCTGCCAGTCCCAGATCACACATCATCA
TCGAAGTCTTCCCCAGTTATAAAGAGGTACATAGTCGTGTGGGTCGAGGATTCTGTGCCTCCAGGACCAGGGGC
CCACCTCTGCCCAGGGAGTCCTTGCGTCCCATGAGGTCTTCCCGCAAGGCCTCTCAGACCCAGATGTGACGGGG
TGTGTGGCCCCAGGAAGCTGGACAGCGGCAGTGGGCTGCTGAGGCCTTCTCTTGGGCTGTGCTCTGGGGGTC
CCTTGCTTAGCCTGTGCTGGACAGCTGGCCTGGGGTCCCTCTGAAGAGACCTTGGCTGCTCACTGTCCACATGT
GAACTTTTTCTAGGTGGCAGGACAAATCGCGCCCATTTAGAGGATGTGGCTGTAACTGCTGGATGGGACTCCAT
AGCTCCTTCCCAGGACCCCTCAGCTCCCCGGCACTGCAGTCTGCAGAGTTCTCCTGGAGGCAGGGGCTGTGCCT
TGTTTACCTTCCATGTGAGGCCAGCCTGTCCCTGAAAGAGAAGATGGCCATGCCCTCCATTTGTAAAGACAATG
CCAGGGCCCAGGAGGACCGCTGCCCTGCCCTGGGCCTTGGCTGGGCCTCTGGTTCTGACACTTTCTGCTGGAAGC
TGTCAGGCTGGGACAGGCTTTGATTTTGGGGTTAGCAAGACAAAGCAAATAAATGCCTTCCACCTCACCGCAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 297

MASLTVKAYLLGKEDAAREIRRFSFCCSPEPEAEAEAAAAGPGPCERLLSRVAALFPALRPGGFQAHYRDEDGDLV
AFSSDEELTMAMSYVKDDIFRIYIKEKKECRRDHRPPCAQEAPRNMVHPNVICDGCNGPVVGTRYKCSVCPDYDL
CSVCEGKGLHRGHTKLAFPSFPGHLSEGFSHSRWLRKVKHGHFGWPGWEMGPPGNWSPRPPRAGEARPGPTAESA
SGPSEDP SVNFLKNVGESVAAALSPLGIEVDIDVEHGGKRSRLTPVSPESSSTEKSSSQPSSCCSDFSKPGGNV
EGATQSLAEQMRKIALESEGRPEEQMESDNCSGGDDWTHLSSKEVDPSTGELQSLQMPSESGPSSLDPSQEGPT
GLKEAALYPHLPPEADPRLIESLSQMLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPL

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FIGURE 298

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTGGCGACAGCTGCCGGCTGGCTGCTACCCGCCCCGCGCCAGCCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCCGGAGCGGGCCCCGAGGGA
CCCTCCCCAGACCGCCTGGGCCGCCCCGGATGTCACATAAAATGGAACAGCCCTTCTACACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGCCCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCTCCAAACAGCAACGGCGTGATCACGACGACGCCTACACCCCCGGGACAGTACTTTTACCCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGGCCCCC
GGCTGGGGCCCGGGGGCGTCTACGCCGGCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCCCTCGGGAGGCGCCGGGGCTGCCGTCGGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCCGGTGTCCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCAGCTCAAACAGAAGGTCATGACCCACGTCAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCTGGGACCTAGGGGCGCCGCAAACCACACTGGACT
CCGGCCCCCTACCTGCGCCAGTCCCTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTGTATGT
TTTTTTCTGCTGGAACAGACTCGATTATATGAATATAATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCCCGCTGGTACTCAAGCCGCGGGGACATTGGGAAGGGGACCCCGCCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTTTGTGTGTGTTTGTCTTTTTATTGAATCTATTTAAGTAAAAAAAAAATTGGTTCTTTATTAA

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FIGURE 299

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGS
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTTPNVSLGATGGPPAGPGGVYAGPEPPPVTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLNRNLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNGCQLLLGVKGHAF

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FIGURE 300

GCAGCCGCCCCGGGCCCCCGCCAGCCTCCCTCCTCGCGTCCCTCGGTGTCCTCCGCGGGCCGGCGCGATGCGGCTG
GGCCCGAGGACCGCGGCGTTGGGGCTGCTGCTGCTGTGCGCCGCCGCGGCCGGCGCCGGCAAGGCCGAGGAGCTG
CACTACCCGCTGGGCGAGCGCCGCAGCGACTACGACCGCGAGGCGCTGCTGGGCGTCCAGGAAGATGTGGATGAA
TATGTTAAACTCGGCCACGAAGAGCAGCAAAAAAGACTGCAGGCGATCATAAAGAAAATCGACTTGGACTCAGAT
GGCTTTCTCACTGAAAGTGAAGTCACTCAGTTTCATGGATTTCAGATGTCTTTTAAGCATTATGCTATGCAAGAAGCAAAA
CAACAGTTTGTGTAATATGATAAAAAACAGTGATGATACTGTGACTTGGGATGAATATAACATTTCAGATGTATGAT
CGTGTGATTGACTTTGATGAGAACACTGCTCTGGATGATGCAGAAGAGGAGTCCTTTAGGAAGCTTCACTTAAAG
GACAAGAAGCGATTTGAAAAAGCTAACCAGGATTTCAGGTCCCGGTTTGAGTCTTGAAGAATTTATTGCTTTTGAG
CATCCTGAAGAAGTTGATTATATGACGGAATTTGTCATTCAAGAAGCTTTAGAAGAACATGACAAAAATGGTGAT
GGATTTGTTAGTTTGGAAGAATTTCTTGGTGATTACAGGTGGGATCCAACCTGCAAATGAAGATCCAGAATGGATA
CTTGTTGAGAAAGACAGATTTCGTGAATGATTATGACAAAGATAACGATGGCAGGCTTGATCCCCAAGAGCTGTTA
CCTTGGGTAGTACCTAATAATCAGGGCATTGCACAAGAGGAGGCGCTTCATCTAATTGATGAAATGGATTTGAAT
GGTGACAAAAAGCTCTCTGAAGAAGAGATTCTGAAAAACCCGGACTTGTTTCTCACCAGTGAAGCCACAGATTAT
GGCAGACAGCTCCATGATGACTATTTCTATCATGATGAGCTTTTAATCTCCGAGCCTGTCTCAGTAGAGTACTGGC
TCCTTTTATAATTTGTTACCAGCTTTACTTTTGTGATAAAAAATTTGATGTTGTATTTTACACTCTTAAGTCTTAA
CCACAGTCAGAATTATCTTAATGTAGAATTATAATTTTGGCTCTTTTAGGAAAAAACAAAATCTGATATTTTTTCC
AAACGTATTGAGCAACAAAATATTAATATTGTGCCATATGACAACAAAGTCTTTCCTAAATACTCCATCTGTTTA
GTACTGTATTGTGGAATATTTGAGTTCTATTTCCAGACTTGAAAACATGGAGGATTTTAGAGATGCCTGAACAAT
ATTATTTAAGTAGTATGTGACCGAGCTATAAATTTTTTGTGTTTCTAAGTAGATTTAATTTGGGAAGTACA
GGACAATGTTTTTAGGTTTAGCATTTTGTGTTAAAAACCTTTAAAGAAACCTTTAGAAGGACTTAGACCTCACATA
TTAATGTTGAGAAGTTCTGCTTAATTTTAAAATGGTTTCTATAAAGGGTTTTATTGTATGAAATAGAACTTTATA
TTTTTGATATGTATAGAGGATAATTATATTTAATGTATAACTATAGCATTATGGTGAGTGGAATTTGACATTGT
CCAAACCTTTTTTCATTTTTGAGTGATTAAAAATGAAATGTCCTTTGTAAA

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FIGURE 301

MRLGPRTAALGLLLLCAAAAGAGKAEELHYPLGERRSYDREALLGVQEDVDEYVKLGHEEQQKRLQAIKKIDL
DSDGFLTESELSSWIQMSFKHYAMQEAKQQFVEYDKNSDDTVTWDEYNIQMYDRVIDFDENTALDDAEESFRKL
HLKDKKRFEKANQDSGPGLSLEEFIAFEHPPEVDYMTFVIEALEEHDKNKGDFVSLEEF LGDYRWDPTANEDP
EWILVEKDRFVNDYDKDNDGRLDPQELLPWVVPNNQGIAQEEALHLIDEMDLNGDKKLSEEEILENPD LFLTSEA
TDYGRQLHDDYFYHDEL

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FIGURE 302

TCTGGGCGCGCGCGACGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCCGTGTCCCGCCCGACCCGCGCCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGCTGCGCCTCCCGCGCG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCTCTTCCTCCTCCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGCTGGAGCTGAAGGCAGATGTCTGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTTACTGAAGCACGTGGGGCCAGGTGTCCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGCTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCACTCCACTGTACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATACCCACCCTTCTCAGGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCCAGATTC
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACTGTTTAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGCTGCTGTGTTTTTGTGAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGAAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 303

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFGYKGSTFHRVIPSFMCQAGFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 304

TCTGGGCGCGCGACGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCGTGTCCCGCCGACCCGCGCCCCGCG**ATGC**
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTCTTCCTCCTCCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGCTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCT**TAA**CTGTGGCCAGGGTGCTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTCAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTCACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATACCCACCCTTCCTCACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCAGATTC
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAAGGACTCTAATACCTGTTTAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAACACAACCTCAGGGCTTTTGIGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCATTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCTGGTAAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 305

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 306

TGCCGCCGTCCCGCCCGCCAGCGCCCCAGCGAGGAAGCAGCGCGCAGCCCCGCGGCCAGCGCACCCGCAGCAGCG
CCCGCAGCTCGTCCGCGCCATGTTCCAGGCGGCCGAGCGCCCCAGGAGTGGGCCATGGAGGGCCCCCGCGACGG
GCTGAAGAAGGAGCGGCTACTGGACGACCGCCACGACAGCGGCCTGGACTCCATGAAGACGAGGAGTACGAGCA
GATGGTCAAGGAGCTGCAGGAGATCCGCCTCGAGCCGCAGGAGGTGCCGCGCGGCTCGGAGCCCTGGAAGCAGCA
GCTCACCGAGGACGGGGACTCGTTCTGCACTTGGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGAT
CCGCCAGGTGAAGGGAGACCTGGCTTTCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTTGGCTGT
GATCACCAACCAGCCAGAAATTGCTGAGGCACTTCTGGGAGCTGGCTGTGATCCTGAGCTCCGAGACTTTCGAGG
AAATACCCCCCTACACCTTGCCTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCTTGACTCAGTCCTGCACCAC
CCCGCACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCTACACTTAGCCTCTATCCATGG
CTACCTGGGCATCGTGGAGCTTTTGGTGTCTTGGGTGCTGATGTCAATGCTCAGGAGCCCTGTAATGGCCGGAC
TGCCCTTCACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGTCACTCCTGTTGAAGTGTGGGGCTGATGTCAA
CAGAGTTACCTACCAGGGCTATTCTCCCTACCAGCTCACCTGGGGCCGCCAAGCACCCGGATACAGCAGCAGCT
GGGCCAGCTGACACTAGAAAACCTTCAGATGCTGCCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGA
GTTACCGGAGTTCACAGAGGACGAGCTGCCCTATGATGACTGTGTGTTTGAGAGCCAGCGTCTGACGTTATGAGT
GCAAAGGGGCTGAAAGAACATGGACTTGTATATTTGTACAAAAAAAAAGTTTTATTTTTCTAAAAAAAAAGAAAAA
GAAGAAAAAATTTAAAGGTGTACTTATATCCACACTGCACACTGCCTAGCCCAAACGTCTTATTGTGGTAGGA
TCAGCCCTCATTTTGTGCTTTTGTGAACTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAGAAAACTTC
TTTTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGTTATCAAAAATTTTCATGGAAGGACCACATTTTATATTTA
TTGTGCTTCGAGTGACTGACCCAGTGGTATCCTGTGACATGTAACAGCCAGGAGTGTTAAGCGTTCAGTGATGT
GGGGTGAAAAGTTACTACCTGTCAAGGTTTGTGTTACCCTCCTGTAAATGGTGTACATAATGTATTGTTGGTAAT
TATTTTGGTACTTTTATGATGTATATTTATTAAAGAGATTTTACAAATG

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FIGURE 307

MFQAAERPQEWAMEGPRDGLKKERLLDDRHDSGLDSMKDEEYEQMVKELQEIRLEPQEVPRGSEPWKQQLTEDGD
SFLHLAI IHEEKALTMEVIRQVKGDLAFLNFQNNLQQTPLHLAVITNQPEIAEALLGAGCDPELRDFRGNTPLHL
ACEQGCLASVGVLTSCTTPHLHSILKATNYNGHTCLHLASIHGYLGIVELLVSLGADVNAQEP CNGRTALHLAV
DLQNPDLVSLLLKCGADVNRVTYQGYSPLYQLTWGRPSTRIQQQLGQLTLENLQMLPESEDEESYDTESEFTEFTE
DELPYDDCVFGGQRLTL

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FIGURE 308

GTGTGCGGACGCAGTTGCGTGAGGGGTTTGTGCTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCCCTCTCCAGCTC
AGCCGCGTAGGTTTGGACATATTTGACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGCTGATGGAGAAGC
CTAGTCCCCTGCTGGTTCGGCGGGAATTTGTGAGACAGTATTACACACTGCTGAACCAGGCCCCAGACATGCTGC
ATAGATTTTATGGAAAGAACTCTTCTTATGTCCATGGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCT
ACGGACAGAAAGAAATCCACAGGAAAGTGATGTCACAAAACCTTACCAACTGCCACACCAAGATTGCGCATGTTG
ATGCTCATGCCACGCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTCTAACAACAACCAGGCTTTGA
GGAGATTCATGCAAACGTTTGTCTTGTCTCTGAGGGGTCTGTTGCAAATAAATTCTATGTTTACAATGATATCT
TCAGATACCAAGATGAGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAAC
CTGAAGAAAAGACAGCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTA
ATGACATGGGAAGAACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAAC
CTGTATCTGAAATCCAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCTGAGGATGCTCAGAAAGATT
CTTCTCCAGCACCTGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCA
GTAAGAATCTTCCACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCAC
AGCCCCGTCCAGAGTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGCGAGAAC
AACGAATAAATATTCCTCCCCAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAGCAAGGTGACATTGAACCCC
GAAGAATGGTGAGACACCCTGACAGTCACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGC
TTAAAGATTTCTTTCAAAGTTATGGAAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCCAATTTTG
GTTTTGTTGTGTTTGTATGATTCTGAGCCTGTTTCAAGAAAGTCCCTAGCAACAGGCCCATCATGTTTCAAGGTGAGG
TCCGTCTGAATGTCGAAGAGAAGAAGACTCGAGCTGCCAGGGAAGGCGACCGACGAGATAATCGCCTTCGGGGAC
CTGGAGGCCCTCGAGGTGGGCTGGGTGGTGAATGAGAGGCCCTCCCCGTGGAGGCATGGTGCAGAAACCAGGAT
TTGGAGTGGGAAGGGGGCTTGCGCCACGGCAGTGAATCTTCATGGATCTTCATGCAGCCATACAAACCCCTGGTTC
CAACAGAATGGTGAATTTTCGACAGCCTTTGGTATCTTGGAGTATGACCCAGTCTGTTATAAACTGCTTAAGTT
TGTATAATTTTACTTTTTTTGTGTGTTAATGGTGTGTGCTCCCTCTCCCTCTCTTCCCTTTTCTGACCTTTAGTC
TTTCACTTCCAATTTTGTGGAATGATATTTTAGGAATAACGGACTTTTAAAGAAGCAAAAAAAAAAAGACTGAATT
TCCTTGCTTACTTTGCATATACAGACTGGATTTTTTTTTTTTTTTTTTACAGCCATTTCCCCAAAGGAATGCTTTGC
ATATTACTGACATTTGGTATGTTTCATTCAATTGGAATATTTCTTATTTTCTACGTGTTTGAAGAGCCTGTAAGAA
ATACAGGATTTGATAATATTTTGAAGGCAGGAAAAACCCAAATTGTTTCTTCTTTGAGAGTCATGACTACCTTCT
GGTGTGGAGAAATTGCCATTGGAAAATTTGACAATTTTGATTCTCACTGGTATGTTTAAAACTGAATAAAAGGA
ATAGAATTTTTTTTTTGATAAAGGATCACAAAACAATTTCTAAAACCTAACTGTTTTTACCATTGAAATTTAAATTG
TGATAATAGGTTTTAAATGTCTAGAATGCAACTGATAGGCTTTTCTTGAAGTGTAGTTTTTTTGAAGTAGTTTT
TTCATGTTTAATTTGTATTTGTAAAAAACAACAAAAAGCAAAAAAATTTCCAAAACCCAGATAACAACCAGAGCAAA
ACTGTTGTGCCTTCTATTTATCTTTGATTTTCACTCTTGGCAATTGTTTAAAAAATACTAGATTTGTTTTATT
AGGTTTCAAGATATGTGGGAATTATAGAATCCCTCTTTCATCACTTTGTGTATGTCTTTTGTAAACATATTTGTT
ATGCCTTATTTCTAAAATTGAGTCTCAAACTGGAATGCCTTTGAAGACAGATGCTTCTATAGAGGTTCTTTGACCT
AAATAGTTTCACTTTGTATTTTTATTCTGGTATCTAATCAGATTCTAATCATAGCCCGTAAGAAGGAATGTTA
CTTTAATATTGGACTTTGCTCATGTGCTCGTGTCCGCATTTTTTTTTTTTCTTAAATCATAGCCATATGGTAAAT
TTTCTATTTTGTATGGTTCTCTTTTATTGATGGGCATGCAGTGGGTGTTACTTGGAATGGCCAATTTTATTATA
AAATATTTCTGGAAGAAAATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 309

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVMSQNFTNCHT
KIRHVDAHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFVTEPQEESE
EEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEPVAEPEPDPEPEPEQEPVSEIQEEKPEFVLEETAPE
DAQKSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRD
QRVREQRINIPPQRGPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFQSYGNVVELRINSGG
KLPNFGFVVFDDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRDNRLRGPGGPRGGLGGGMRGPPRGGM
VQKPGFGVGRGLAPRQ

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FIGURE 310

CCAAGATGGCCGCCCGCTGGATCTAGAGCTGAAGAAGGCCTTCACAGAGCTTCAAGCCAAAGTTATTGACACTC
AACAGAAGGTGAAGCTCGCAGACATACAGATTGAACAGCTAAACAGAACGAAAAAGCATGCACATCTTACAGATA
CAGAGATCATGACTTTGGTAGATGAGACTAACATGTATGAAGGTGTAGGAAGAATGTTTATTCTTCAGTCCAAGG
AAGCAATTCACAGTCAGCTGTTAGAGAAGCAGAAAATAGCAGAAGAAAAAATTAAAGAAGTAGAACAGAAAAAGT
CCTACCTGGAGCGAAGCGTTAAGGAAGCTGAGGACAACATCCGGGAGATGCTGATGGCACGAAGGGCCCAGTAGG
GAGCCTCTCTGGGAAGCTCTTCCTCCTGCCCCCTCCCATTCCTGGTGGGGGCAGAGGAGTGTCTGCAGGGAAACAG
CTTCTCCTCTGCCCCGATGGATGCTTTATTTGGATGGCCTGGCAACATCACATTTTCTGCATCACCCCTGAGCCCC
ATTTGCTTCCCAGCCCTGGAGTTTTTACCCGGCTTTGCCTGCCACCTCTGCCCAGGACACTCTTCCCTCTCGGGA
TGTGTGATGAACTCCCAGGAGAGGGAAGATGGGAGCCAGGGCAAGATAGGAAGCTCTGCCTGAGCTTTCCACTAG
GCACGCCAGCCAGACCAATAAAAAAGCGTCTGTCCCACTCTGCTAAGCCTGGTTTTCTTGAGCAGAGGGATGGAAC
AGAGGGTGAGAGAGGCAGTGGCCGTCTCCACCTCAGCTCCTGCTCCCTCTGCATCAGAGCCCTTCCCTTCTTGGG
GGATGGGCCTTGCCCTCTTCTCTTTTCCCTTCTGTACCTTTGACTAACGCTCAGCTTCCGGGCCTGCATGCAGT
AGACAGAAGAGGAAGAAAGAACAGATGTTACAGCTGAATCTCAGTGAACAGAATAGCAGTCCCTGGATGGCAGT
CTGCCTAAAGATTCCCTTCCCTGCCTTCTCCCATACATTCCAAAAGGAAGTTCAACAGTAAGCAGCACCTCCAAG
ACTGTCTCCTTTTGGCCAATATCATAAGATGGACGCCATAATCCTGAGGCCTCCTAGAGGCTGAGGGGGCAACGG
TGTGATCCAGCTGGCTCATCCCAGCCCAGGTGGGCCAATTATTCAATTTTCAAGAATTTTGTTGCAAGCCAGTTG
TCAAACACAGCCATTATAATTATGTAAATTTGCAAATTATGTTAAAAACAAGGACAATAAATATTCAAATGCAT
CCCTAAAAAAAAAAAAAAAAA

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FIGURE 311

MAAPVDLELKKAFTTELQAKVIDTQQKVKLADIQIEQLNRTKKHAHLTDTEIMTLVDETNMYEGVGRMFILQSKEA
IHSQLEKQKIAEEKIKELEQKKSYLERSVKEAEDNIREMLMARRAQ

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FIGURE 312

GAATTCGGGCGGGGTTTGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCCTCTCCAGCTCAGCCGCGTAGGT
TTGGACATATTTACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGGTGATGGAGAAGCCTAGTCCCCTGCT
GGTCGGGCGGGAATTTGTGAGACAGTATTACACACTGCTGAACCAGGCCCCAGACATGCTGCATAGATTTTATGG
AAAGAACTCTTCTTATGTCCATGGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCTACGGACAGAAAGA
AATCCACAGGAAAGTGATGTCACAAAACCTTCACCAACTGCCACACCAAGATTTCGCCATGTTGATGCTCATGCCAC
GCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTCTAACAACAACAGGCTTTGAGGAGATTTCATGCA
AACGTTTGTCTTGTCTCCTGAGGGGTCTGTTGCAAATAAATTCTATGTTTACAATGATATCTTCAGATACCAAGA
TGAGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACA
GCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTTCTATGATCAGGCAGTTGTCAGTAATGACATGGAAGA
ACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAAT
CCAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAAACTGCCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAGCACC
TGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAAGAATCTTCC
ACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCACAGCCCCGTCCAGA
GTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGCGAGAACAACGAATAAATAT
TCCTCCCCAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAGCAAGGTGACATTGAACCCCGAAGAATGGTGAG
ACACCCCTGACAGTCACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGCTTAAAGATTTCTT
TCAAAGTTATGGAAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCCAATTTTGGTTTTGTTGTGTT
TGATGATTCTGAGCCTGTTTCAGAAAGTCCTTAGCAACAGGCCCATCATGTTTCAGAGGTGAGGTCCGTCTGAATGT
CGAAGAGAAGAAGACTCGAGCTGCCAGGGAAGGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCG
AGGTGGGCTGGGTGGTGGGAATGAGAGGCCCTCCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAG
GGGGCTTGCGCCACGGCAGTAATCTTCATGGATCTTCATGCAGCCATACAAACCCTGGTTCCAACAGAATGGTGA
ATTTTCGACAGCCTTTGGTATCTTGGAGTATGACCCCACTCTGTTATAAACTGCTTAAGTTTGTATAATTTTACT
TTTTTTGTGTGTTAATGGTGTGTGCTCCCTCTCCCTCTCTCCCTTTTCCCTGACCTTTAGTCTTTCACCTCCAATT
TTGTGGAATGATATTTTAGGAATAACGGACTTTTACCCGAATTC

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FIGURE 313

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVMSQNFTNCHT
KIRHVDAHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFVTEPQEES
EEVEEPEERQQTPFVVPDDSGTFYDQAVVSNDMEEHLEEPVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPE
DAQSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRD
QRVREQRINIPFQRGPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDDFFQSYGNVVELRINSGG
KLPNFGFVVFDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRRDNRRLRGPGGPRGGLGGGMRGPPRGGM
VQKPGFGVGRGLAPRQ

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FIGURE 314A

TTTCCTTCCCTCCCTCGGTCTTCCTTCGCACGCTGTTTGGTGATTGTGGCGCTCGCGACAGACAGGGAGGCGGTG
GCAGAGGACACTTGTCAATGGCCGCTCTAAACCTGTGGAGGCAGCGGTGGTCGCAGCCGCTGTACCGAGCTCCGG
GAGTGGGGTGGGCGGCGGGGACTGCGGGCCCCGGGCACGGGGGGGCTGCCGCGATGGCAGCTGGCTCTGGCGGT
CGGGGCACCCCTGCTGCTGGGCGCGGTGCCATATACCTGTGGAGTCGGCAGCAACGGCGCCGGGAGGCCAGAGG
CCGGGGCGACGCCAGCGGCCTGAAGCGCAACAGCGAACGGAAGACCCCGGAGGGCAGGGCCAGTCCGGCCCCGGG
CAGCGGACACCCTGAAGGTCCCGGTGCTCACTTGGACATGAACTCTCTTGATAGAGCCCAAGCAGCCAAGAATAA
AGGCAATAAATATTTTTAAAGCAGGAAAATATGAACAAGCTATTTCAGTGCTATACTGAGGCTATTAGCTTGTGCC
TACAGAGAAGAATGTTGACCTTTCTACATTTTATCAAAACAGAGCTGCTGCCTTTGAACAGTTGCAAAAATGGAA
AGAAGTGGCACAAGACTGTACAAAAGCTGTTGAACTTAATCCCAAATATGTGAAAGCTCTCTTTAGACGTGCAAA
AGCCCATGAGAAGCTAGACAATAAGAAGGAATGTTTAGAAGATGTCAGTGTGTGTATATTAGAAGGGTTCCA
AAATCAACAAAGCATGCTGTTAGCCGATAAAGTTCTTAAACTCCTTGGAAGAGAGAAAGCCAAAGAAAAATATAA
GAATCGTGAACCTCTGATGCCATCTCCACAGTTTATCAAAATCTTACTTCAGTTCTTTACGGATGATATCATTTC
CCAGCCCATGCTTAAAGGAGAGAAATCTGATGAAGATAAAGACAAGGAAGGGGAGGCTTTAGAAGTGAAAAGAAA
TTCTGGATACTTAAAGGCCAAACAGTATATGGAAGAAAGAACTACGATAAAATCATAAGTGAATGCTCAAAAAG
AATAGATGCTGAAGGCAAATACATGGCAGAAGCATTGCTACTACGAGCTACCTTCTACCTGCTTATTGGCAATGC
CAATGCAGCCAAACCAGATTTAGATAAAGTCATCAGTTTGAAAGAAGCTAATGTGAAGCTTCGAGCAAATGCTCT
CATCAAAAGAGGCAGCATGTACATGCAACAGCAGCAGCCTTTGCTGTCCACTCAAGATTTTAACATGGCTGCTGA
CATCGATCCTCAGAATGCAGATGTTTATCACCACCGAGGACAGCTGAAAATACTCCTTGATCAAGTTGAAGAAGC
AGTGGCAGATTTTGATGAATGTATTAGGTTAAGACCTGAGTCTGCTCTGGCACAAGCACAGAAATGTTTGCATT
GTACCGCCAGGCATATACGGGAAACAACCTCTTCAAAATCCAAGCAGCTATGAAAGGTTTTGAAGAGGTCAATAA
GAAATTTCCAAGGTGTGCCGAAGGCTATGCACTATACGCCCAGGCATTAACAGATCAACAACAGTTTGGTAAAGC
TGATGAAATGTATGATAAATGTATTGATTTGGAACCAGATAATGCTACAACATATGTTCAATAAAGGTTTACTTCA
ACTTCAGTGGAAAGCAAGATCTGGATAGAGGTTTGGAACTTATCAGCAAGGCTATTGAAATTGACAATAAATGTGA
TTTTGCCTATGAAACCATGGGAACCTATTGAAGTACAAAGAGGAAACATGGAGAAAGCCATTGACATGTTCAACAA
AGCTATTAACCTGGCCAAATCGGAAATGGAGATGGCCCATCTGTATTCACTTTGCGATGCCGCCCATGCCCAGAC
AGAAGTTGCAAGAAATACGGATTAAAACCACCAACATTATAAAACAGGGGGAAGCAGACTGACCCCTCTTTTTA
AAAGTTTACCCCTCTTCAACTGAACCCTAAAGACACTGTCATGAACTGTGTTGAATGGTGGAAATCAGTATTTT
TGTTTGTGGTGTTGTTATTTGTTACATCTGTTTCATGTCTAGGTGTTGTGGGTGTGGCTGTTGAAGGAAGTTTGC
AGTCTTGCAGCTTTTATTCCCTGTGCAACAAAAGATTAGAACATGTTAAAGGGATTTTTTAAATAAAGTTGCAAA
AGTACAAATGATAATTGGCCATGCAATAAAAACCTGATTTGTTGATTTTTTTTTTAAAGGGGGTTGGCAGTTGAT
TATGTTCTGGATGATTCCGTCTATATATGTGTGAATAATGTAAGTATTTTACAGCATGTTGATTTTTTAAATTAAC
GTAGTAAATGCTGTAAAATAGATTTATATTTCAGTTAACCGCTTTCAGTTGATTTTTTTGAAAGAAACAAAGGTTAA
ATGGGGGATTAAAGTAAATTGAGAGACCCCTTTAAACCATTGTCAGCATGCACAATGCCTCTGATTCTGCAGTTT
TAGAAACTTGGTGGCACTTATTAATCCTCTTGGCCCCCTTTCCACTCTAATGGATAGTGATACATTCTTCTTAAAGT
CCACAACAGCAGATTTTCTTGCAGTAAATTATGCAGATGCAAAATATTCTAATTGATATATGTGTTGGAAGACTG
AGTATTGATGGGGGAGTGGACCAGACAAAGAGGTAAGATGAAACAGTAGTGTGTTTATAATTGTCTGTGACTATT
TTCTATAATAATTAGTACTATTTAATGGTGAGCTTTTAAAAATGTAGGATAGAGGGTACAGTGGCACTGTATATA
CTATTTATAGTCTCAGCTACTAGGGAGGCTGAGGCAAGAGGCTTGAGACCAGGAGCTCGAGGCTGTAATGTGCCA
TGATGATTGCACCTGCGAATAGCCACTGCACTCCAGCCTGGGCAATATAGCAAGACCCCATCCTTTAAAAAATTT
TAGAACTTTTTTAAATCAAAGTGCAGATTGCTTGATGTAAAACCCAAATAAAGGTAGAGTAAGTGTGATATAT
GGGAGTATTAAATAGCTTAAATTTCTCGTGAAGGACATGTGGCTAAAGGGTCAAAAAGGATGTAAGACTTGGA
GCCAGAGCATAGTATTTCTGAAATAACAAGTTTGTGCTTAACTATGGCTACATGTGCTTAAGGAATTTTGAG
CCACTTATTTTTGAAGATGCTGAGGACATGTAGAGTGCTTTTTGTAGTGAGCTAACCTTGATCTCTAAGGACTAA
CTACCCAGGTCCAGGTCTTCACTAGGGGTACTGACAGTGTTTAAAGCTTTACTCCACCTCCTTACTTAGAAATCAC
TTTACGATTTATTTCCATTTTCCACTTTTATAGACCATCCTTTTGCTTATATGCTAGATTTTTCTGGTGAGGGAA
GGGTTGTGTTCTTCAGGGGTCCTTTGTTTTGAAATACTCAGGATGGGGAGAGGTTTTATTTAAGAACGAATTATAA
TTATGGTTTACACTGTTGGGAGTAAAGGAGCATTTTTACACCCCTTAAGGGTGCTTAATTCTGTTGAAACCAAAA
AGATTTGTCTACAAATGCTATCTTTTTTAGAAACTATTAGAAATGACTCCCTTCAAAGTCAATCTTTGGAAAAAT

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FIGURE 314B

ATTGAGGAGGTCACCTAATTAGTTGGTGCAGTTAATATAATTCAAGATGATTTGGATGATGGGAAGTTTGAGACCG
CTGCATTTTGTTTTTAAATTATGCACCTTCTGATAACCCCCAAATACAGAAATGTTCTACATCTCTGAATGACCT
CTGACTTTAAAAAAGTTTTTATTTGCATGGCTGTATTTACATTAACACTGACATTTTCTTCTACTCTTCTCCCTT
CTTTCATCTTGGGGTTGGGTAGAGAAACACAAAGGAAACTGAAGCATGTGCCATTCTATACTGTCATTCCAAATT
CTCATGGACTATTGCCTGTTGTGAAAATGTTTGAAACTGCACTGAAAGCTGCATCTGTCTGTATCTTTCTTTTGT
AAATGACCTCACATGTAAATTCACCAAATAAATATTACATTC

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FIGURE 315

MAASKPVEAAVVAAVPSSGSGVGGGGTAGPGTGGLPRWQLALAVGAPLLL GAGAIYLWSRQQRRREARGRGDAS
GLKRNSERKTPEGRASPAPGSGHPEGPGAHLDMNSLDRAQAANKGNKYFKAGKYEQAIQCYTEAISLCPTTEKNV
DLSTFYQNRAAAFEQLQKWKEVAQDCTKAVELNPKYVKALFRRAKAHEKLDNKKECLEDVTAVCILEGFQNNQSM
LLADKVLKLLGKEKAKEKYKNREPLMPSPQFIKSYFSSFTDDIISQPMLKGEKSDEDKDKEGEALEVKENSGYLK
AKQYMEEENYDKIISECSKEIDAEGKYMAEALLLRATFYLLIGNANAAKPDLDKVISLKEANVKLRANALIKRGS
MYMQQQQPLLSTQDFNMAADIDPQNADVHHRGQLKILLDQVEEAVADFDECIRLRPESALAAQAKCFALYRQAY
TGNNSSQIQAAAMKGFEEVIKKFPRCAEGYALYAQALTDQQQFGKADEMYDKCIDLEPDNATTYVHKGLLQLQWKQ
DLDRGLELISKAIEIDNKCDFAYETMGTTIEVQRGNMEKAIDMFNKAINLAKSEMMAHLYSLCDAHAHQTEVAKK
YGLKPPTL

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FIGURE 316

GGCGGAGGCGGGGTTTCAGTGGCTTCTGGTGCTCTAGGGTGAGCTCTGCCCGGCTGCAGGGATGGCGGGGAGGGG
TAAGCTCATCGCAGTGATCGGAGACGAGGACACGGTGACTGGTTTCCTGCTGGGCGGCATAGGGGAGCTTAACAA
GAACCGCCATCCCAATTTCTGGTGGTGGAGAAGGATACAACCATCAATGAGATCGAAGACACTTCCGGCAATT
TCTAAACCGGGATGACATTGGCATCATCCTCATCAACCAGTACATCGCAGAGATGGTGCGGCATGCCCTGGACGC
CCACCAGCAGTCCATCCCCGCTGTCCTGGAGATCCCCTCCAAGGAGCACCCATATGACGCCGCCAAGGACTCCAT
CCTGCGCAGGGCCAGGGGCATGTTCACTGCCGAAGACCTGCGCTAGGGGACTCCTCATAGCCCTCAGCCCTTCCC
TCGTTTCCAGGCCTCTCCCCAGGCTTGCCATCAGCCTTCTTTACTTTTTGAGCCTCTGATTTCGAATTCCCTGCT
CCTTCCCACTCCATTAAGAGGCTAGGTGAGGCGCTTCTAGGTTGCTGGGGCTCTGCTGGTTAAGGAACAGGAAGC
CTGACCATCTCCCTCCACTACCTCTTCCCTGTGCTGTTACACAGTGTCAATTGTTGATGTTAAATTAAAGTCATAT
TCTTGCTTCTCTCCAG

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FIGURE 317

MAGRKGLIAVIGDEDVTGFLGGIGELNKNRHPNFLVVEKDTTINEIEDTFRQFLNRDDIGIILINQYIAEMVR
HALDAHQQSIPAVLEIPSKEHPYDAAKDSILRRARGMFTAEDLR